PEC

POLYMER ENGINEERING CORPORATION

O Ring Catalog

3525 3rd Ave • Marion, IA 52302
(319) 373-7325 (SEAL)
www.pecseals.com
sales@pecseals.com

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O-Rings

Radial Shaft Seals

Custom Molded Rubber and Plastics

PTFE

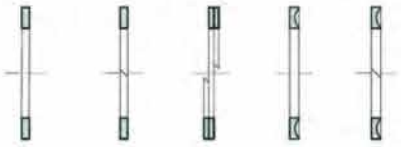
FEP/PFA Encapsulation

Cord & Vulcanized O-Rings

X-Rings

Square Rings

Back Up Rings



V-Seals

U-Cups

Hydraulic & Pneumatic Seals

Bonded Seals

Kits

Grommets

Gaskets

Special Packaging

JIT Stocking

Polymer Engineering is a global leader in sourcing and supplying industrial sealing products. We service a broad range of markets including Industrial, Automotive, Power Transmission, Agriculture & Heavy Equipment, Marine, Semiconductor, Oil & Gas, Water Treatment, Food & Beverage, and more.

Our mission is to provide the highest level of quality and trusted service at the most competitive costs. Through our strategic partnerships with some of the world's leading manufacturers, we are able to offer a full array of industrial sealing products and services for almost any application.

From idea to production, if you can conceive it...we can deliver it.

Engineering and Design Support • PPAP, IMDS, ISIR • Rapid Prototyping • Reverse Engineering • Material Identification & Testing • Failure Analysis

NSF FDA WRAS APPROVED PRODUCT KTW

UL APPROVED NORSOK M-710 MATERIALS RoHS compliant products REACH WRC Approved

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Let Polymer Engineering be your one stop, and final thought, for all of your industrial sealing needs

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O-Rings

While one of the simplest of designs, O-Rings are one of the most widely used sealing products in the world. They are commonly used in pumps, valves, gears boxes, vehicles, aircraft, industrial equipment, cylinders, appliances, plumbing and much more. Little to nothing has changed with respect to O-Ring's basic design, however the evolution of new and highly engineered polymers, have really expanded the chemical, temperature and pressure capabilities of their use.

Thousands of available molds:
AS568 • Metric • JIS • BS + much more

Materials:
Nitrile/Buna (NBR)
Fluorocarbon/Viton® (FKM/FPM)
Perfluoroelastomer (FFKM)
Silicone (VMQ)
Fluorosilicone (FVMQ)
Ethylene Propylene (EPDM/EPR)
Neoprene/Chloroprene (CR)
Aflas (TFE/P)
Polyacrylate (ACM)
Urethane (PU)
Polytetrafluoroethylene (PTFE)
FEP/PFA Encapsulated

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O-Rings

Polymer Engineering can also supply a full range of O-Ring Cord, Vulcanized O-Rings and O-Ring kits

Available material approvals include:

NSF	FDA	WRAS APPROVED PRODUCT	KTW
UL	APPROVED NORSOK M-710 MATERIALS	RoHS compliant products; REACH COMPLIANT	WRC Approved

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Custom Molded Rubber & Plastics

Whether you need a custom part made to your print, or assistance in the concept and design of a specialized part, Polymer Engineering has the knowledge and experience needed to take on the most demanding applications. If it is a special material, engineered design or combination of both, chances are, we can deliver the product for the job.

Polymer Engineering's highly qualified manufacturing partners offer a broad range of tooling capabilities from basic two plate compression molding to injection and transfer molding. We are also able to supply custom extrusions, machined parts, and custom water jet & die cut gaskets.

Rubber:
Nitrile/Buna, Fluorocarbon/Viton®, Silicone, Fluorosilicone, Ethylene Propylene, Neoprene/Chloroprene and more

Plastics:
Nylon, Zyel®, TPV/TPE, Santoprene®, Acetal, Delrin®, ABS, PEEK, ULTEM®, PVC, HDPE/LDPE, Polypropylene, Polyethylene, Polystyrene, Polycarbonate and more

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Engineering and Design Support
PPAP, IMDS, ISIR
Rapid Prototyping
Reverse Engineering
Material Identification & Testing

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Oil Seals

Oil Seals, Shaft Seals, Grease Seals, Radial Lip Seals or Rotary Shaft Seals...whatever you may call them, they are used to keep oil and grease in, and dirt and other contaminates out. Whether retaining vital fluids or lubricants, confining pressure, excluding contaminates, or a combination thereof, the correct seal can play a critical role in protecting and extending the life of a broad range of rotary equipment.

Inch & Metric
Thousands of standard molds available, as well as application specific, custom seal design
NBR, FKM, ACM (PA), Silicone, HNBR, EPDM
Stainless Steel
Pressure Seals • Axle/Hub Seals • PTFE Lip Seals • Valve Stem Seals • Canned Wipers • V-Seals
Capable of interchanging/cross referencing all major shaft seal manufacturer's part numbers





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Standard Lip Designs:

S = Single lip with garter spring for pressure fluids or severe grease sealing applications.
T = Dual lip with garter spring for pressure conditions with high dirt exclusion, foreign materials and severe grease sealing applications.
V = Single lip, no garter spring for sealing non-pressure medium, especially for grease retention or sealing viscous fluid.
K = Duel lip, no garter spring for sealing non-pressure medium, especially for grease retention or sealing viscous fluid with light duty dust exclusion.

Standard Case Designs:

A = Metal OD with second inner case for lip protection and greater structural rigidity.
B = Metal OD with ground surface and lead in chamfer.
BF = Metal OD with rubber lined internal case.
BZ = Metal OD with rubber covered nose for improved sealing against the bottom of the bore.
C = Rubber Covered OD for excellent OD sealing ability.

	S	T	V	K
Type C				
	SC	TC	VC	KC
Type B				
	SB	TB	VB	KB
				
	SBF	TBF	VBF	KBF
				
	SBZ	TBZ	VBZ	KBZ
Type A				
	SA	TA	VA	KA

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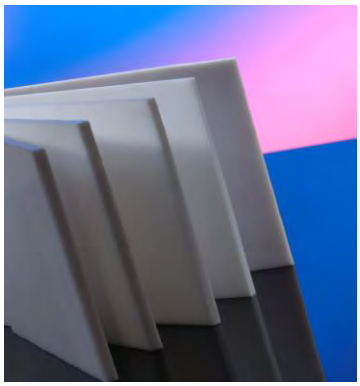
PTFE

Commonly referred to as Teflon®, PTFE provides true chemical inertness. PTFE is unaffected by most known chemicals, including alkaline solutions, acids and solvents, and also offers extremely low coefficients of friction. Under moderate loads, PTFE can be used in temperatures up to 500°F, and in liquid nitrogen, as low as -325°F.

Other favorable properties of PTFE include:

- **Optimal dielectric characteristics**
- **Self-lubricating and non-sticking**
- **High mechanical resistance obtained by means of charge modification**
- **Excellent resistance to aging (even in UV exposure)**
- **Non-flammable**
- **Good heat insulation**
- **Excellent tool workability**
- **Bio-compatibility and suitability for contact with food (FDA compliant)**



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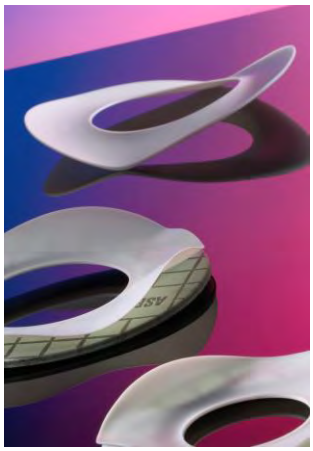
PTFE

By utilizing different fillers in PTFE, the basic properties of the virgin polymer can be improved. Fillers are regularly used to provide added benefits such as enhanced compressive strength, thermal conductivity, reduced thermal expansion and reduced wear factors. Common fillers are glass, graphite, bronze, carbon and platinum in various percentages.

Polymer Engineering is able to supply PTFE:
Inch & Metric O-Rings
Back Up Rings (solid, split, spiral)
Custom Shapes
Rods & Tubes
Sheets



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AS568 O-Ring Size Guide

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AS568-000 Series, 0.070" cross section										
AS568-	Nominal (ref.)		INCHES				MM			
No.	ID	CS	ID	Tol +/-	CS	Tol +/-	ID	Tol +/-	CS	Tol +/-
-001	1/32	1/32	0.029	0.004	0.040	0.003	0.74	0.10	1.02	0.08
-002	3/64	3/64	0.042	0.004	0.050	0.003	1.07	0.10	1.27	0.08
-003	1/16	1/16	0.056	0.004	0.060	0.003	1.42	0.10	1.52	0.08
-004	5/64	1/16	0.070	0.005	0.070	0.003	1.78	0.13	1.78	0.08
-005	3/32	1/16	0.101	0.005	0.070	0.003	2.57	0.13	1.78	0.08
-006	1/8	1/16	0.114	0.005	0.070	0.003	2.90	0.13	1.78	0.08
-007	5/32	1/16	0.145	0.005	0.070	0.003	3.68	0.13	1.78	0.08
-008	3/16	1/16	0.176	0.005	0.070	0.003	4.47	0.13	1.78	0.08
-009	7/32	1/16	0.208	0.005	0.070	0.003	5.28	0.13	1.78	0.08
-010	1/4	1/16	0.239	0.005	0.070	0.003	6.07	0.13	1.78	0.08
-011	5/16	1/16	0.301	0.005	0.070	0.003	7.65	0.13	1.78	0.08
-012	3/8	1/16	0.364	0.005	0.070	0.003	9.25	0.13	1.78	0.08
-013	7/16	1/16	0.426	0.005	0.070	0.003	10.82	0.13	1.78	0.08
-014	1/2	1/16	0.489	0.005	0.070	0.003	12.42	0.13	1.78	0.08
-015	9/16	1/16	0.551	0.007	0.070	0.003	14.00	0.18	1.78	0.08
-016	5/8	1/16	0.614	0.009	0.070	0.003	15.60	0.23	1.78	0.08
-017	11/16	1/16	0.676	0.009	0.070	0.003	17.17	0.23	1.78	0.08
-018	3/4	1/16	0.739	0.009	0.070	0.003	18.77	0.23	1.78	0.08
-019	13/16	1/16	0.801	0.009	0.070	0.003	20.35	0.23	1.78	0.08
-020	7/8	1/16	0.864	0.009	0.070	0.003	21.95	0.23	1.78	0.08
-021	15/16	1/16	0.926	0.009	0.070	0.003	23.52	0.23	1.78	0.08
-022	1	1/16	0.989	0.010	0.070	0.003	25.12	0.25	1.78	0.08
-023	1 1/16	1/16	1.051	0.010	0.070	0.003	26.70	0.25	1.78	0.08
-024	1 1/8	1/16	1.114	0.010	0.070	0.003	28.30	0.25	1.78	0.08
-025	1 3/16	1/16	1.176	0.011	0.070	0.003	29.87	0.28	1.78	0.08
-026	1 1/4	1/16	1.239	0.011	0.070	0.003	31.47	0.28	1.78	0.08
-027	1 5/16	1/16	1.301	0.011	0.070	0.003	33.05	0.28	1.78	0.08
-028	1 3/8	1/16	1.364	0.013	0.070	0.003	34.65	0.33	1.78	0.08
-029	1 1/2	1/16	1.489	0.013	0.070	0.003	37.82	0.33	1.78	0.08
-030	1 5/8	1/16	1.614	0.013	0.070	0.003	41.00	0.33	1.78	0.08
-031	1 3/4	1/16	1.739	0.015	0.070	0.003	44.17	0.38	1.78	0.08
-032	1 7/8	1/16	1.864	0.015	0.070	0.003	47.35	0.38	1.78	0.08
-033	2	1/16	1.989	0.018	0.070	0.003	50.52	0.46	1.78	0.08
-034	2 1/8	1/16	2.114	0.018	0.070	0.003	53.70	0.46	1.78	0.08
-035	2 1/4	1/16	2.239	0.018	0.070	0.003	56.87	0.46	1.78	0.08
-036	2 3/8	1/16	2.364	0.018	0.070	0.003	60.05	0.46	1.78	0.08
-037	2 1/2	1/16	2.489	0.018	0.070	0.003	63.22	0.46	1.78	0.08
-038	2 5/8	1/16	2.614	0.020	0.070	0.003	66.40	0.51	1.78	0.08
-039	2 3/4	1/16	2.739	0.020	0.070	0.003	69.57	0.51	1.78	0.08
-040	2 7/8	1/16	2.864	0.020	0.070	0.003	72.75	0.51	1.78	0.08
-041	3	1/16	2.989	0.024	0.070	0.003	75.92	0.61	1.78	0.08
-042	3 1/4	1/16	3.239	0.024	0.070	0.003	82.27	0.61	1.78	0.08
-043	3 1/2	1/16	3.489	0.024	0.070	0.003	88.62	0.61	1.78	0.08
-044	3 3/4	1/16	3.739	0.027	0.070	0.003	94.97	0.69	1.78	0.08
-045	4	1/16	3.989	0.027	0.070	0.003	101.32	0.69	1.78	0.08
-046	4 1/4	1/16	4.239	0.030	0.070	0.003	107.67	0.76	1.78	0.08
-047	4 1/2	1/16	4.489	0.030	0.070	0.003	114.02	0.76	1.78	0.08
-048	4 3/4	1/16	4.739	0.030	0.070	0.003	120.37	0.76	1.78	0.08
-049	5	1/16	4.989	0.037	0.070	0.003	126.72	0.94	1.78	0.08
-050	5 1/4	1/16	5.239	0.037	0.070	0.003	133.07	0.94	1.78	0.08

Polymer Engineering

AS568-100 Series, 0.103" cross section										
AS568-	Nominal (ref.)		INCHES				MM			
No.	ID	CS	ID	Tol +/-	CS	Tol +/-	ID	Tol +/-	CS	Tol +/-
-102	1/16	3/32	0.049	0.005	0.103	0.003	1.24	0.13	2.62	0.08
-103	3/32	3/32	0.081	0.005	0.103	0.003	2.06	0.13	2.62	0.08
-104	1/8	3/32	0.112	0.005	0.103	0.003	2.84	0.13	2.62	0.08
-105	5/32	3/32	0.143	0.005	0.103	0.003	3.63	0.13	2.62	0.08
-106	3/16	3/32	0.174	0.005	0.103	0.003	4.42	0.13	2.62	0.08
-107	7/32	3/32	0.206	0.005	0.103	0.003	5.23	0.13	2.62	0.08
-108	1/4	3/32	0.237	0.005	0.103	0.003	6.02	0.13	2.62	0.08
-109	5/16	3/32	0.299	0.005	0.103	0.003	7.59	0.13	2.62	0.08
-110	3/8	3/32	0.362	0.005	0.103	0.003	9.19	0.13	2.62	0.08
-111	7/16	3/32	0.424	0.005	0.103	0.003	10.77	0.13	2.62	0.08
-112	1/2	3/32	0.487	0.005	0.103	0.003	12.37	0.13	2.62	0.08
-113	9/16	3/32	0.549	0.007	0.103	0.003	13.94	0.18	2.62	0.08
-114	5/8	3/32	0.612	0.009	0.103	0.003	15.54	0.23	2.62	0.08
-115	11/16	3/32	0.674	0.009	0.103	0.003	17.12	0.23	2.62	0.08
-116	3/4	3/32	0.737	0.009	0.103	0.003	18.72	0.23	2.62	0.08
-117	13/16	3/32	0.799	0.010	0.103	0.003	20.29	0.25	2.62	0.08
-118	7/8	3/32	0.862	0.010	0.103	0.003	21.89	0.25	2.62	0.08
-119	15/16	3/32	0.924	0.010	0.103	0.003	23.47	0.25	2.62	0.08
-120	1	3/32	0.987	0.010	0.103	0.003	25.07	0.25	2.62	0.08
-121	1 1/16	3/32	1.049	0.010	0.103	0.003	26.64	0.25	2.62	0.08
-122	1 1/8	3/32	1.112	0.010	0.103	0.003	28.24	0.25	2.62	0.08
-123	1 3/16	3/32	1.174	0.012	0.103	0.003	29.82	0.30	2.62	0.08
-124	1 1/4	3/32	1.237	0.012	0.103	0.003	31.42	0.30	2.62	0.08
-125	1 5/16	3/32	1.299	0.012	0.103	0.003	32.99	0.30	2.62	0.08
-126	1 3/8	3/32	1.362	0.012	0.103	0.003	34.59	0.30	2.62	0.08
-127	1 7/16	3/32	1.424	0.012	0.103	0.003	36.17	0.30	2.62	0.08
-128	1 1/2	3/32	1.487	0.012	0.103	0.003	37.77	0.30	2.62	0.08
-129	1 9/16	3/32	1.549	0.015	0.103	0.003	39.34	0.38	2.62	0.08
-130	1 5/8	3/32	1.612	0.015	0.103	0.003	40.94	0.38	2.62	0.08
-131	1 11/16	3/32	1.674	0.015	0.103	0.003	42.52	0.38	2.62	0.08
-132	1 3/4	3/32	1.737	0.015	0.103	0.003	44.12	0.38	2.62	0.08
-133	1 13/16	3/32	1.799	0.015	0.103	0.003	45.69	0.38	2.62	0.08
-134	1 7/8	3/32	1.862	0.015	0.103	0.003	47.29	0.38	2.62	0.08
-135	1 15/16	3/32	1.925	0.017	0.103	0.003	48.90	0.43	2.62	0.08
-136	2	3/32	1.987	0.017	0.103	0.003	50.47	0.43	2.62	0.08
-137	2 1/16	3/32	2.050	0.017	0.103	0.003	52.07	0.43	2.62	0.08
-138	2 1/8	3/32	2.112	0.017	0.103	0.003	53.64	0.43	2.62	0.08
-139	2 3/16	3/32	2.175	0.017	0.103	0.003	55.25	0.43	2.62	0.08
-140	2 1/4	3/32	2.237	0.017	0.103	0.003	56.82	0.43	2.62	0.08
-141	2 5/16	3/32	2.300	0.020	0.103	0.003	58.42	0.51	2.62	0.08
-142	2 3/8	3/32	2.362	0.020	0.103	0.003	59.99	0.51	2.62	0.08
-143	2 7/16	3/32	2.425	0.020	0.103	0.003	61.60	0.51	2.62	0.08
-144	2 1/2	3/32	2.487	0.020	0.103	0.003	63.17	0.51	2.62	0.08
-145	2 9/16	3/32	2.550	0.020	0.103	0.003	64.77	0.51	2.62	0.08
-146	2 5/8	3/32	2.612	0.020	0.103	0.003	66.34	0.51	2.62	0.08
-147	2 11/16	3/32	2.675	0.022	0.103	0.003	67.95	0.56	2.62	0.08
-148	2 3/4	3/32	2.737	0.022	0.103	0.003	69.52	0.56	2.62	0.08
-149	2 13/16	3/32	2.800	0.022	0.103	0.003	71.12	0.56	2.62	0.08
-150	2 7/8	3/32	2.862	0.022	0.103	0.003	72.69	0.56	2.62	0.08
-151	3	3/32	2.987	0.024	0.103	0.003	75.87	0.61	2.62	0.08

Polymer Engineering

AS568-100 Series, 0.103" cross section										
AS568-	**Nominal (ref.)**		**INCHES**				**MM**			
No.	**ID**	**CS**	**ID**	**Tol +/-**	**CS**	**Tol +/-**	**ID**	**Tol +/-**	**CS**	**Tol +/-**
-152	**3 1/4**	**3/32**	3.237	0.024	0.103	0.003	82.22	0.61	2.62	0.08
-153	**3 1/2**	**3/32**	3.487	0.024	0.103	0.003	88.57	0.61	2.62	0.08
-154	**3 3/4**	**3/32**	3.737	0.028	0.103	0.003	94.92	0.71	2.62	0.08
-155	**4**	**3/32**	3.987	0.028	0.103	0.003	101.27	0.71	2.62	0.08
-156	**4 1/4**	**3/32**	4.237	0.030	0.103	0.003	107.62	0.76	2.62	0.08
-157	**4 1/2**	**3/32**	4.487	0.030	0.103	0.003	113.97	0.76	2.62	0.08
-158	**4 3/4**	**3/32**	4.737	0.030	0.103	0.003	120.32	0.76	2.62	0.08
-159	**5**	**3/32**	4.987	0.035	0.103	0.003	126.67	0.89	2.62	0.08
-160	**5 1/4**	**3/32**	5.237	0.035	0.103	0.003	133.02	0.89	2.62	0.08
-161	**5 1/2**	**3/32**	5.487	0.035	0.103	0.003	139.37	0.89	2.62	0.08
-162	**5 3/4**	**3/32**	5.737	0.035	0.103	0.003	145.72	0.89	2.62	0.08
-163	**6**	**3/32**	5.987	0.035	0.103	0.003	152.07	0.89	2.62	0.08
-164	**6 1/4**	**3/32**	6.237	0.040	0.103	0.003	158.42	1.02	2.62	0.08
-165	**6 1/2**	**3/32**	6.487	0.040	0.103	0.003	164.77	1.02	2.62	0.08
-166	**6 3/4**	**3/32**	6.737	0.040	0.103	0.003	171.12	1.02	2.62	0.08
-167	**7**	**3/32**	6.987	0.040	0.103	0.003	177.47	1.02	2.62	0.08
-168	**7 1/4**	**3/32**	7.237	0.045	0.103	0.003	183.82	1.14	2.62	0.08
-169	**7 1/2**	**3/32**	7.487	0.045	0.103	0.003	190.17	1.14	2.62	0.08
-170	**7 3/4**	**3/32**	7.737	0.045	0.103	0.003	196.52	1.14	2.62	0.08
-171	**8**	**3/32**	7.987	0.045	0.103	0.003	202.87	1.14	2.62	0.08
-172	**8 1/4**	**3/32**	8.237	0.050	0.103	0.003	209.22	1.27	2.62	0.08
-173	**8 1/2**	**3/32**	8.487	0.050	0.103	0.003	215.57	1.27	2.62	0.08
-174	**8 3/4**	**3/32**	8.737	0.050	0.103	0.003	221.92	1.27	2.62	0.08
-175	**9**	**3/32**	8.987	0.050	0.103	0.003	228.27	1.27	2.62	0.08
-176	**9 1/4**	**3/32**	9.237	0.055	0.103	0.003	234.62	1.40	2.62	0.08
-177	**9 1/2**	**3/32**	9.487	0.055	0.103	0.003	240.97	1.40	2.62	0.08
-178	**9 3/4**	**3/32**	9.737	0.055	0.103	0.003	247.32	1.40	2.62	0.08

Polymer Engineering

AS568-200 Series, 0.139" cross section										
AS568-	Nominal (ref.)		INCHES				MM			
No.	ID	CS	ID	Tol +/-	CS	Tol +/-	ID	Tol +/-	CS	Tol +/-
-201	3/16	1/8	0.171	0.005	0.139	0.004	4.34	0.13	3.53	0.10
-202	1/4	1/8	0.234	0.005	0.139	0.004	5.94	0.13	3.53	0.10
-203	5/16	1/8	0.296	0.005	0.139	0.004	7.52	0.13	3.53	0.10
-204	3/8	1/8	0.359	0.005	0.139	0.004	9.12	0.13	3.53	0.10
-205	7/16	1/8	0.421	0.005	0.139	0.004	10.69	0.13	3.53	0.10
-206	1/2	1/8	0.484	0.005	0.139	0.004	12.29	0.13	3.53	0.10
-207	9/16	1/8	0.546	0.007	0.139	0.004	13.87	0.18	3.53	0.10
-208	5/8	1/8	0.609	0.009	0.139	0.004	15.47	0.23	3.53	0.10
-209	11/16	1/8	0.671	0.009	0.139	0.004	17.04	0.23	3.53	0.10
-210	3/4	1/8	0.734	0.010	0.139	0.004	18.64	0.25	3.53	0.10
-211	13/16	1/8	0.796	0.010	0.139	0.004	20.22	0.25	3.53	0.10
-212	7/8	1/8	0.859	0.010	0.139	0.004	21.82	0.25	3.53	0.10
-213	15/16	1/8	0.921	0.010	0.139	0.004	23.39	0.25	3.53	0.10
-214	1	1/8	0.984	0.010	0.139	0.004	24.99	0.25	3.53	0.10
-215	1 1/16	1/8	1.046	0.010	0.139	0.004	26.57	0.25	3.53	0.10
-216	1 1/8	1/8	1.109	0.012	0.139	0.004	28.17	0.30	3.53	0.10
-217	1 3/16	1/8	1.171	0.012	0.139	0.004	29.74	0.30	3.53	0.10
-218	1 1/4	1/8	1.234	0.012	0.139	0.004	31.34	0.30	3.53	0.10
-219	1 5/16	1/8	1.296	0.012	0.139	0.004	32.92	0.30	3.53	0.10
-220	1 3/8	1/8	1.359	0.012	0.139	0.004	34.52	0.30	3.53	0.10
-221	1 7/16	1/8	1.421	0.012	0.139	0.004	36.09	0.30	3.53	0.10
-222	1 1/2	1/8	1.484	0.015	0.139	0.004	37.69	0.38	3.53	0.10
-223	1 5/8	1/8	1.609	0.015	0.139	0.004	40.87	0.38	3.53	0.10
-224	1 3/4	1/8	1.734	0.015	0.139	0.004	44.04	0.38	3.53	0.10
-225	1 7/8	1/8	1.859	0.018	0.139	0.004	47.22	0.46	3.53	0.10
-226	2	1/8	1.984	0.018	0.139	0.004	50.39	0.46	3.53	0.10
-227	2 1/8	1/8	2.109	0.018	0.139	0.004	53.57	0.46	3.53	0.10
-228	2 1/4	1/8	2.234	0.020	0.139	0.004	56.74	0.51	3.53	0.10
-229	2 3/8	1/8	2.359	0.020	0.139	0.004	59.92	0.51	3.53	0.10
-230	2 1/2	1/8	2.484	0.020	0.139	0.004	63.09	0.51	3.53	0.10
-231	2 5/8	1/8	2.609	0.020	0.139	0.004	66.27	0.51	3.53	0.10
-232	2 3/4	1/8	2.734	0.024	0.139	0.004	69.44	0.61	3.53	0.10
-233	2 7/8	1/8	2.859	0.024	0.139	0.004	72.62	0.61	3.53	0.10
-234	3	1/8	2.984	0.024	0.139	0.004	75.79	0.61	3.53	0.10
-235	3 1/8	1/8	3.109	0.024	0.139	0.004	78.97	0.61	3.53	0.10
-236	3 1/4	1/8	3.234	0.024	0.139	0.004	82.14	0.61	3.53	0.10
-237	3 3/8	1/8	3.359	0.024	0.139	0.004	85.32	0.61	3.53	0.10
-238	3 1/2	1/8	3.484	0.024	0.139	0.004	88.49	0.61	3.53	0.10
-239	3 5/8	1/8	3.609	0.028	0.139	0.004	91.67	0.71	3.53	0.10
-240	3 3/4	1/8	3.734	0.028	0.139	0.004	94.84	0.71	3.53	0.10
-241	3 7/8	1/8	3.859	0.028	0.139	0.004	98.02	0.71	3.53	0.10
-242	4	1/8	3.984	0.028	0.139	0.004	101.19	0.71	3.53	0.10
-243	4 1/8	1/8	4.109	0.028	0.139	0.004	104.37	0.71	3.53	0.10
-244	4 1/4	1/8	4.234	0.030	0.139	0.004	107.54	0.76	3.53	0.10
-245	4 3/8	1/8	4.359	0.030	0.139	0.004	110.72	0.76	3.53	0.10
-246	4 1/2	1/8	4.484	0.030	0.139	0.004	113.89	0.76	3.53	0.10
-247	4 5/8	1/8	4.609	0.030	0.139	0.004	117.07	0.76	3.53	0.10
-248	4 3/4	1/8	4.734	0.030	0.139	0.004	120.24	0.76	3.53	0.10
-249	4 7/8	1/8	4.859	0.035	0.139	0.004	123.42	0.89	3.53	0.10
-250	5	1/8	4.984	0.035	0.139	0.004	126.59	0.89	3.53	0.10

Polymer Engineering

AS568-200 Series, 0.139" cross section										
AS568-	**Nominal (ref.)**		**INCHES**				**MM**			
No.	**ID**	**CS**	**ID**	**Tol +/-**	**CS**	**Tol +/-**	**ID**	**Tol +/-**	**CS**	**Tol +/-**
-251	**5 1/8**	**1/8**	5.109	0.035	0.139	0.004	129.77	0.89	3.53	0.10
-252	**5 1/4**	**1/8**	5.234	0.035	0.139	0.004	132.94	0.89	3.53	0.10
-253	**5 3/8**	**1/8**	5.359	0.035	0.139	0.004	136.12	0.89	3.53	0.10
-254	**5 1/2**	**1/8**	5.484	0.035	0.139	0.004	139.29	0.89	3.53	0.10
-255	**5 5/8**	**1/8**	5.609	0.035	0.139	0.004	142.47	0.89	3.53	0.10
-256	**5 3/4**	**1/8**	5.734	0.035	0.139	0.004	145.64	0.89	3.53	0.10
-257	**5 7/8**	**1/8**	5.859	0.035	0.139	0.004	148.82	0.89	3.53	0.10
-258	**6**	**1/8**	5.984	0.035	0.139	0.004	151.99	0.89	3.53	0.10
-259	**6 1/4**	**1/8**	6.234	0.040	0.139	0.004	158.34	1.02	3.53	0.10
-260	**6 1/2**	**1/8**	6.484	0.040	0.139	0.004	164.69	1.02	3.53	0.10
-261	**6 3/4**	**1/8**	6.734	0.040	0.139	0.004	171.04	1.02	3.53	0.10
-262	**7**	**1/8**	6.984	0.040	0.139	0.004	177.39	1.02	3.53	0.10
-263	**7 1/4**	**1/8**	7.234	0.045	0.139	0.004	183.74	1.14	3.53	0.10
-264	**7 1/2**	**1/8**	7.484	0.045	0.139	0.004	190.09	1.14	3.53	0.10
-265	**7 3/4**	**1/8**	7.734	0.045	0.139	0.004	196.44	1.14	3.53	0.10
-266	**8**	**1/8**	7.984	0.045	0.139	0.004	202.79	1.14	3.53	0.10
-267	**8 1/4**	**1/8**	8.234	0.050	0.139	0.004	209.14	1.27	3.53	0.10
-268	**8 1/2**	**1/8**	8.484	0.050	0.139	0.004	215.49	1.27	3.53	0.10
-269	**8 3/4**	**1/8**	8.734	0.050	0.139	0.004	221.84	1.27	3.53	0.10
-270	**9**	**1/8**	8.984	0.050	0.139	0.004	228.19	1.27	3.53	0.10
-271	**9 1/4**	**1/8**	9.234	0.055	0.139	0.004	234.54	1.40	3.53	0.10
-272	**9 1/2**	**1/8**	9.484	0.055	0.139	0.004	240.89	1.40	3.53	0.10
-273	**9 3/4**	**1/8**	9.734	0.055	0.139	0.004	247.24	1.40	3.53	0.10
-274	**10**	**1/8**	9.984	0.055	0.139	0.004	253.59	1.40	3.53	0.10
-275	**10 1/2**	**1/8**	10.484	0.055	0.139	0.004	266.29	1.40	3.53	0.10
-276	**11**	**1/8**	10.984	0.065	0.139	0.004	278.99	1.65	3.53	0.10
-277	**11 1/2**	**1/8**	11.484	0.065	0.139	0.004	291.69	1.65	3.53	0.10
-278	**12**	**1/8**	11.984	0.065	0.139	0.004	304.39	1.65	3.53	0.10
-279	**13**	**1/8**	12.984	0.065	0.139	0.004	329.79	1.65	3.53	0.10
-280	**14**	**1/8**	13.984	0.065	0.139	0.004	355.19	1.65	3.53	0.10
-281	**15**	**1/8**	14.984	0.065	0.139	0.004	380.59	1.65	3.53	0.10
-282	**16**	**1/8**	15.955	0.075	0.139	0.004	405.26	1.90	3.53	0.10
-283	**17**	**1/8**	16.955	0.080	0.139	0.004	430.66	2.03	3.53	0.10
-284	**18**	**1/8**	17.955	0.085	0.139	0.004	456.06	2.16	3.53	0.10

Polymer Engineering

AS568-300 Series, 0.210" cross section										
AS568-	Nominal (ref.)		INCHES				MM			
No.	ID	CS	ID	Tol +/-	CS	Tol +/-	ID	Tol +/-	CS	Tol +/-
-309	7/16	3/16	0.412	0.005	0.210	0.005	10.46	0.13	5.33	0.13
-310	1/2	3/16	0.475	0.005	0.210	0.005	12.07	0.13	5.33	0.13
-311	9/16	3/16	0.537	0.007	0.210	0.005	13.64	0.18	5.33	0.13
-312	5/8	3/16	0.600	0.009	0.210	0.005	15.24	0.23	5.33	0.13
-313	11/16	3/16	0.662	0.009	0.210	0.005	16.81	0.23	5.33	0.13
-314	3/4	3/16	0.725	0.010	0.210	0.005	18.42	0.25	5.33	0.13
-315	13/16	3/16	0.787	0.010	0.210	0.005	19.99	0.25	5.33	0.13
-316	7/8	3/16	0.850	0.010	0.210	0.005	21.59	0.25	5.33	0.13
-317	15/16	3/16	0.912	0.010	0.210	0.005	23.16	0.25	5.33	0.13
-318	1	3/16	0.975	0.010	0.210	0.005	24.77	0.25	5.33	0.13
-319	1 1/16	3/16	1.037	0.010	0.210	0.005	26.34	0.25	5.33	0.13
-320	1 1/8	3/16	1.100	0.012	0.210	0.005	27.94	0.30	5.33	0.13
-321	1 3/16	3/16	1.162	0.012	0.210	0.005	29.51	0.30	5.33	0.13
-322	1 1/4	3/16	1.225	0.012	0.210	0.005	31.12	0.30	5.33	0.13
-323	1 5/16	3/16	1.287	0.012	0.210	0.005	32.69	0.30	5.33	0.13
-324	1 3/8	3/16	1.350	0.012	0.210	0.005	34.29	0.30	5.33	0.13
-325	1 1/2	3/16	1.475	0.015	0.210	0.005	37.47	0.38	5.33	0.13
-326	1 5/8	3/16	1.600	0.015	0.210	0.005	40.64	0.38	5.33	0.13
-327	1 3/4	3/16	1.725	0.015	0.210	0.005	43.82	0.38	5.33	0.13
-328	1 7/8	3/16	1.850	0.015	0.210	0.005	46.99	0.38	5.33	0.13
-329	2	3/16	1.975	0.018	0.210	0.005	50.17	0.46	5.33	0.13
-330	2 1/8	3/16	2.100	0.018	0.210	0.005	53.34	0.46	5.33	0.13
-331	2 1/4	3/16	2.225	0.018	0.210	0.005	56.52	0.46	5.33	0.13
-332	2 3/8	3/16	2.350	0.018	0.210	0.005	59.69	0.46	5.33	0.13
-333	2 1/2	3/16	2.475	0.020	0.210	0.005	62.87	0.51	5.33	0.13
-334	2 5/8	3/16	2.600	0.020	0.210	0.005	66.04	0.51	5.33	0.13
-335	2 3/4	3/16	2.725	0.020	0.210	0.005	69.22	0.51	5.33	0.13
-336	2 7/8	3/16	2.850	0.020	0.210	0.005	72.39	0.51	5.33	0.13
-337	3	3/16	2.975	0.024	0.210	0.005	75.57	0.61	5.33	0.13
-338	3 1/8	3/16	3.100	0.024	0.210	0.005	78.74	0.61	5.33	0.13
-339	3 1/4	3/16	3.225	0.024	0.210	0.005	81.92	0.61	5.33	0.13
-340	3 3/8	3/16	3.350	0.024	0.210	0.005	85.09	0.61	5.33	0.13
-341	3 1/2	3/16	3.475	0.024	0.210	0.005	88.27	0.61	5.33	0.13
-342	3 5/8	3/16	3.600	0.028	0.210	0.005	91.44	0.71	5.33	0.13
-343	3 3/4	3/16	3.725	0.028	0.210	0.005	94.62	0.71	5.33	0.13
-344	3 7/8	3/16	3.850	0.028	0.210	0.005	97.79	0.71	5.33	0.13
-345	4	3/16	3.975	0.028	0.210	0.005	100.97	0.71	5.33	0.13
-346	4 1/8	3/16	4.100	0.028	0.210	0.005	104.14	0.71	5.33	0.13
-347	4 1/4	3/16	4.225	0.030	0.210	0.005	107.32	0.76	5.33	0.13
-348	4 3/8	3/16	4.350	0.030	0.210	0.005	110.49	0.76	5.33	0.13
-349	4 1/2	3/16	4.475	0.030	0.210	0.005	113.67	0.76	5.33	0.13
-350	4 5/8	3/16	4.600	0.030	0.210	0.005	116.84	0.76	5.33	0.13
-351	4 3/4	3/16	4.725	0.030	0.210	0.005	120.02	0.76	5.33	0.13
-352	4 7/8	3/16	4.850	0.030	0.210	0.005	123.19	0.76	5.33	0.13
-353	5	3/16	4.975	0.037	0.210	0.005	126.37	0.94	5.33	0.13
-354	5 1/8	3/16	5.100	0.037	0.210	0.005	129.54	0.94	5.33	0.13
-355	5 1/4	3/16	5.225	0.037	0.210	0.005	132.72	0.94	5.33	0.13
-356	5 3/8	3/16	5.350	0.037	0.210	0.005	135.89	0.94	5.33	0.13
-357	5 1/2	3/16	5.475	0.037	0.210	0.005	139.07	0.94	5.33	0.13
-358	5 5/8	3/16	5.600	0.037	0.210	0.005	142.24	0.94	5.33	0.13

Polymer Engineering

AS568-300 Series, 0.210" cross section										
AS568-	**Nominal (ref.)**		**INCHES**				**MM**			
No.	**ID**	**CS**	**ID**	**Tol +/-**	**CS**	**Tol +/-**	**ID**	**Tol +/-**	**CS**	**Tol +/-**
-359	**5 3/4**	**3/16**	5.725	0.037	0.210	0.005	145.42	0.94	5.33	0.13
-360	**5 7/8**	**3/16**	5.850	0.037	0.210	0.005	148.59	0.94	5.33	0.13
-361	**6**	**3/16**	5.975	0.037	0.210	0.005	151.77	0.94	5.33	0.13
-362	**6 1/4**	**3/16**	6.225	0.040	0.210	0.005	158.12	1.02	5.33	0.13
-363	**6 1/2**	**3/16**	6.475	0.040	0.210	0.005	164.47	1.02	5.33	0.13
-364	**6 3/4**	**3/16**	6.725	0.040	0.210	0.005	170.82	1.02	5.33	0.13
-365	**7**	**3/16**	6.975	0.040	0.210	0.005	177.17	1.02	5.33	0.13
-366	**7 1/4**	**3/16**	7.225	0.045	0.210	0.005	183.52	1.14	5.33	0.13
-367	**7 1/2**	**3/16**	7.475	0.045	0.210	0.005	189.87	1.14	5.33	0.13
-368	**7 3/4**	**3/16**	7.725	0.045	0.210	0.005	196.22	1.14	5.33	0.13
-369	**8**	**3/16**	7.975	0.045	0.210	0.005	202.57	1.14	5.33	0.13
-370	**8 1/4**	**3/16**	8.225	0.050	0.210	0.005	208.92	1.27	5.33	0.13
-371	**8 1/2**	**3/16**	8.475	0.050	0.210	0.005	215.27	1.27	5.33	0.13
-372	**8 3/4**	**3/16**	8.725	0.050	0.210	0.005	221.62	1.27	5.33	0.13
-373	**9**	**3/16**	8.975	0.050	0.210	0.005	227.97	1.27	5.33	0.13
-374	**9 1/4**	**3/16**	9.225	0.055	0.210	0.005	234.32	1.40	5.33	0.13
-375	**9 1/2**	**3/16**	9.475	0.055	0.210	0.005	240.67	1.40	5.33	0.13
-376	**9 3/4**	**3/16**	9.725	0.055	0.210	0.005	247.02	1.40	5.33	0.13
-377	**10**	**3/16**	9.975	0.055	0.210	0.005	253.37	1.40	5.33	0.13
-378	**10 1/2**	**3/16**	10.475	0.060	0.210	0.005	266.07	1.52	5.33	0.13
-379	**11**	**3/16**	10.975	0.060	0.210	0.005	278.77	1.52	5.33	0.13
-380	**11 1/2**	**3/16**	11.475	0.065	0.210	0.005	291.47	1.65	5.33	0.13
-381	**12**	**3/16**	11.975	0.065	0.210	0.005	304.17	1.65	5.33	0.13
-382	**13**	**3/16**	12.975	0.065	0.210	0.005	329.57	1.65	5.33	0.13
-383	**14**	**3/16**	13.975	0.070	0.210	0.005	354.97	1.78	5.33	0.13
-384	**15**	**3/16**	14.975	0.070	0.210	0.005	380.37	1.78	5.33	0.13
-385	**16**	**3/16**	15.955	0.075	0.210	0.005	405.26	1.90	5.33	0.13
-386	**17**	**3/16**	16.955	0.080	0.210	0.005	430.66	2.03	5.33	0.13
-387	**18**	**3/16**	17.955	0.085	0.210	0.005	456.06	2.16	5.33	0.13
-388	**19**	**3/16**	18.955	0.090	0.210	0.005	481.46	2.29	5.33	0.13
-389	**20**	**3/16**	19.955	0.095	0.210	0.005	506.86	2.41	5.33	0.13
-390	**21**	**3/16**	20.955	0.095	0.210	0.005	532.26	2.41	5.33	0.13
-391	**22**	**3/16**	21.955	0.100	0.210	0.005	557.66	2.54	5.33	0.13
-392	**23**	**3/16**	22.940	0.105	0.210	0.005	582.68	2.67	5.33	0.13
-393	**24**	**3/16**	23.940	0.110	0.210	0.005	608.08	2.79	5.33	0.13
-394	**25**	**3/16**	24.940	0.115	0.210	0.005	633.48	2.92	5.33	0.13
-395	**26**	**3/16**	25.940	0.120	0.210	0.005	658.88	3.05	5.33	0.13

Polymer Engineering

AS568-400 Series, 0.275" cross section										
AS568-	Nominal (ref.)		INCHES				MM			
No.	ID	CS	ID	Tol +/-	CS	Tol +/-	ID	Tol +/-	CS	Tol +/-
-425	4 1/2	1/4	4.475	0.033	0.275	0.006	113.67	0.84	6.99	0.15
-426	4 5/8	1/4	4.600	0.033	0.275	0.006	116.84	0.84	6.99	0.15
-427	4 3/4	1/4	4.725	0.033	0.275	0.006	120.02	0.84	6.99	0.15
-428	4 7/8	1/4	4.850	0.033	0.275	0.006	123.19	0.84	6.99	0.15
-429	5	1/4	4.975	0.037	0.275	0.006	126.37	0.94	6.99	0.15
-430	5 1/8	1/4	5.100	0.037	0.275	0.006	129.54	0.94	6.99	0.15
-431	5 1/4	1/4	5.225	0.037	0.275	0.006	132.72	0.94	6.99	0.15
-432	5 3/8	1/4	5.350	0.037	0.275	0.006	135.89	0.94	6.99	0.15
-433	5 1/2	1/4	5.475	0.037	0.275	0.006	139.07	0.94	6.99	0.15
-434	5 5/8	1/4	5.600	0.037	0.275	0.006	142.24	0.94	6.99	0.15
-435	5 3/4	1/4	5.725	0.037	0.275	0.006	145.42	0.94	6.99	0.15
-436	5 7/8	1/4	5.850	0.037	0.275	0.006	148.59	0.94	6.99	0.15
-437	6	1/4	5.975	0.037	0.275	0.006	151.77	0.94	6.99	0.15
-438	6 1/4	1/4	6.225	0.040	0.275	0.006	158.12	1.02	6.99	0.15
-439	6 1/2	1/4	6.475	0.040	0.275	0.006	164.47	1.02	6.99	0.15
-440	6 3/4	1/4	6.725	0.040	0.275	0.006	170.82	1.02	6.99	0.15
-441	7	1/4	6.975	0.040	0.275	0.006	177.17	1.02	6.99	0.15
-442	7 1/4	1/4	7.225	0.045	0.275	0.006	183.52	1.14	6.99	0.15
-443	7 1/2	1/4	7.475	0.045	0.275	0.006	189.87	1.14	6.99	0.15
-444	7 3/4	1/4	7.725	0.045	0.275	0.006	196.22	1.14	6.99	0.15
-445	8	1/4	7.975	0.045	0.275	0.006	202.57	1.14	6.99	0.15
-446	8 1/2	1/4	8.475	0.055	0.275	0.006	215.27	1.40	6.99	0.15
-447	9	1/4	8.975	0.055	0.275	0.006	227.97	1.40	6.99	0.15
-448	9 1/2	1/4	9.475	0.055	0.275	0.006	240.67	1.40	6.99	0.15
-449	10	1/4	9.975	0.055	0.275	0.006	253.37	1.40	6.99	0.15
-450	10 1/2	1/4	10.475	0.060	0.275	0.006	266.07	1.52	6.99	0.15
-451	11	1/4	10.975	0.060	0.275	0.006	278.77	1.52	6.99	0.15
-452	11 1/2	1/4	11.475	0.060	0.275	0.006	291.47	1.52	6.99	0.15
-453	12	1/4	11.975	0.060	0.275	0.006	304.17	1.52	6.99	0.15
-454	12 1/2	1/4	12.475	0.060	0.275	0.006	316.87	1.52	6.99	0.15
-455	13	1/4	12.975	0.060	0.275	0.006	329.57	1.52	6.99	0.15
-456	13 1/2	1/4	13.475	0.070	0.275	0.006	342.27	1.78	6.99	0.15
-457	14	1/4	13.975	0.070	0.275	0.006	354.97	1.78	6.99	0.15
-458	14 1/2	1/4	14.475	0.070	0.275	0.006	367.67	1.78	6.99	0.15
-459	15	1/4	14.975	0.070	0.275	0.006	380.37	1.78	6.99	0.15
-460	15 1/2	1/4	15.475	0.070	0.275	0.006	393.07	1.78	6.99	0.15
-461	16	1/4	15.955	0.075	0.275	0.006	405.26	1.90	6.99	0.15
-462	16 1/2	1/4	16.455	0.075	0.275	0.006	417.96	1.90	6.99	0.15
-463	17	1/4	16.955	0.080	0.275	0.006	430.66	2.03	6.99	0.15
-464	17 1/2	1/4	17.455	0.085	0.275	0.006	443.36	2.16	6.99	0.15
-465	18	1/4	17.955	0.085	0.275	0.006	456.06	2.16	6.99	0.15
-466	18 1/2	1/4	18.455	0.085	0.275	0.006	468.76	2.16	6.99	0.15
-467	19	1/4	18.955	0.090	0.275	0.006	481.46	2.29	6.99	0.15
-468	19 1/2	1/4	19.455	0.090	0.275	0.006	494.16	2.29	6.99	0.15
-469	20	1/4	19.955	0.095	0.275	0.006	506.86	2.41	6.99	0.15
-470	21	1/4	20.955	0.095	0.275	0.006	532.26	2.41	6.99	0.15
-471	22	1/4	21.955	0.100	0.275	0.006	557.66	2.54	6.99	0.15
-472	23	1/4	22.940	0.105	0.275	0.006	582.68	2.67	6.99	0.15
-473	24	1/4	23.940	0.110	0.275	0.006	608.08	2.79	6.99	0.15
-474	25	1/4	24.940	0.115	0.275	0.006	633.48	2.92	6.99	0.15
-475	26	1/4	25.940	0.120	0.275	0.006	658.88	3.05	6.99	0.15

Polymer Engineering

AS568-900 Series, BOSS									
AS568-	**Nominal (ref.)**	**INCHES**				**MM**			
No.	**Tube OD**	**ID**	**Tol +/-**	**CS**	**Tol +/-**	**ID**	**Tol +/-**	**CS**	**Tol +/-**
-901	**3/32**	0.185	0.005	0.056	0.003	4.70	0.13	1.42	0.08
-902	**1/8**	0.239	0.005	0.064	0.003	6.07	0.13	1.63	0.08
-903	**3/16**	0.301	0.005	0.064	0.003	7.65	0.13	1.63	0.08
-904	**1/4**	0.351	0.005	0.072	0.003	8.92	0.13	1.83	0.08
-905	**5/16**	0.414	0.005	0.072	0.003	10.52	0.13	1.83	0.08
-906	**3/8**	0.468	0.005	0.078	0.003	11.89	0.13	1.98	0.08
-907	**7/16**	0.530	0.007	0.082	0.003	13.46	0.18	2.08	0.08
-908	**1/2**	0.644	0.009	0.087	0.003	16.36	0.23	2.21	0.08
-909	**9/16**	0.706	0.009	0.097	0.003	17.93	0.23	2.46	0.08
-910	**5/8**	0.755	0.009	0.097	0.003	19.18	0.23	2.46	0.08
-911	**11/16**	0.863	0.009	0.116	0.004	21.92	0.23	2.95	0.10
-912	**3/4**	0.924	0.009	0.116	0.004	23.47	0.23	2.95	0.10
-913	**13/16**	0.986	0.010	0.116	0.004	25.04	0.25	2.95	0.10
-914	**7/8**	1.047	0.010	0.116	0.004	26.59	0.25	2.95	0.10
-916	**1**	1.171	0.010	0.116	0.004	29.74	0.25	2.95	0.10
-918	**1 1/8**	1.355	0.012	0.116	0.004	34.42	0.30	2.95	0.10
-920	**1 1/4**	1.475	0.014	0.118	0.004	37.47	0.36	3.00	0.10
-924	**1 1/2**	1.720	0.014	0.118	0.004	43.69	0.36	3.00	0.10
-928	**1 3/4**	2.090	0.018	0.118	0.004	53.09	0.46	3.00	0.10
-932	**2**	2.337	0.018	0.118	0.004	59.36	0.46	3.00	0.10

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : EP70-SC

TEST REPORT

Typical properties of cured compound

Material : EPDM 70 **Date issued : June 2016**
Color : Black

Spec: ASTM D2000 M4CA710 A25 B35 EA14 F17 G21

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	70	70±5	D 2240-10
	Tensile Strength, min, MPa	10.6	10	D 412-13
	Elongation, min, %	338	200	D 412-13
	Cure System	Sulfur		
A25	Heat Aging, 70hrs at 125°C			D 573-10
	Hardness Change, max, points	+3	+10	
	Tesile Change, max, %	-7	-20	
	Elongation change, max, %	-23	-40	
B35	Compression Set-ASTM Method B			D 395-08
	22hrs at 125°C, max, %	48	70	
EA14	Water Resistance, 70hrs at 100°C			D 471-12a
	Volume Change, %	+2	±5	
F17	Low-temperature resistance			D 471-12a
	Nonbrittle after 3 min at -40°C	pass	pass	
G21	Tear resistance, Die C			D 624-12
	min, kN/m	45	26	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : EP70-PC

TEST REPORT

Typical properties of cured compound

Material : EPDM 70 **Date issued : June 2016**
Color : Black

Spec: ASTM D2000 M2DA710 A26 B36 EA14 F17 G11

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	70	70 ± 5	D 2240-10
	Tensile Strength, min, MPa	14.0	10	D 412-13
	Elongation, min, %	229	200	D 412-13
	Cure System	Peroxide		
A26	Heat Resistance, 70 hrs at 150°C			D 573-10
	Hardness Change, max, points	+4	+10	
	Tensile Change, max, %	-9	-20	
	Elongation Change, max, %	-12	-20	
B36	Compression Set, Method B			D 395-08
	22 hrs at 150°C, max, %	16	25	
EA14	IRM 901 Oil Resistance, 70hrs at 100°C			D 471-12a
	Hardness Change, points	-2		
	Volume Change, %	+3	±5	
F17	Low-temperature Resistance			D 2137-11
	Nonbrittle after 3 min at -40°C	Pass	Pass	
G11	Tear resistance, Die B			D 624-12
	min, kN/m	40	17	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : **N70**

TEST REPORT

Typical properties of cured compound

Material : NBR 70
Color : Black

Date issued : June 2016

Spec: ASTM D2000 M2BG710 A14 B14 EA14 EF11 EF21 EO14 EO34

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	66	70 ± 5	D 2240-10
	Tensile Strength, min, MPa	16.2	10	D 412-13
	Elongation, min, %	405	250	D 412-13
	Modulus at 100%, min, psi	623.5	600	D 412-13
A14	Heat Aging, 70hrs at 100°C			D 573-10
	Hardness Change, max, points	+5	± 15	
	Tensile Change, max, %	+11	± 30	
	Elongation Change, max, %	-15	-50	
B14	Compression Set, Method B			D 395-08
	22 hrs at 100°C, max, %	12	25	
EA14	Water Resistance, 70hrs at 100°C			D 471-12a
	Hardness Change, points	-4	±10	
	Volume Change, %	+3	±15	
EF11	Fuel A Resistance, 70hrs at 23°C			D 471-12a
	Hardness Change, points	-2	±10	
	Tensile Change, max, %	-7	-25	
	Elongation Change, max, %	-15	-25	
	Volume Change, %	2	-5 to +10	
EF21	Fuel B Resistance, 70hrs at 23°C			D 471-12a
	Hardness Change, points	-11	-30 to 0	
	Tensile Change, max, %	-24	-60	
	Elongation Change, max, %	-29	-60	
	Volume Change, %	+25	0 to +40	
EO14	IRM 901 Oil Resistance, 70 hrs at 100°C			D 471-12a
	Hardness Change, points	+6	-5 to +10	
	Tensile Change, max, %	+3	-25	
	Elongation Change, max, %	-17	-45	
	Volume Change, %	-4	-10 to +5	
EO34	IRM903 Oil Resistance, 70 hrs at 100°C			D 471-12a
	Hardness Change, points	-4	-10 to +5	
	Tensile Change, max, %	+5	-45	
	Elongation Change, max, %	-21	-45	
	Volume Change, %	+13	0 to +25	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : N70-FDA

TEST REPORT

Typical properties of cured compound

Material : NBR 70, FDA **Date issued : June 2016**
Color : Black

Spec: ASTM D2000 M2BG714 B14 B34 EO14 EO34 Z1

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	67	70 ± 5	D 2240-10
	Tensile Strength, min, MPa	14.6	14	D 412-13
	Elongation, min, %	410	250	D 412-13
	Modulus at 100% elongation, Mpa	2.7	Report	D 412-13
Basic	Heat Resistance, 70 hrs at 100°C			D 573-10
	Hardness Change, max, points	+5	± 15	
	Tensile Change, max, %	+2	± 30	
	Elongation Change, max, %	-9	-50	
B14	Compression Set, Method B			D 395-08
	22 hrs at 100°C, max, %	16	25	
EO14	IRM 901 Oil Resistance, 70hrs at 100°C			D 471-12a
	Hardness Change, points	+3	-5 to +10	
	Tensile Change, max, %	-11	-25	
	Elongation Change, max, %	-8	-45	
	Volume Change, %	-7	-10 to +5	
EO34	IRM 903 Oil Resistance, 70hrs at 100°C			D 471-12a
	Hardness Change, points	-3	-10 to +5	
	Tensile Change, max, %	-24	-45	
	Elongation Change, max, %	-12	-45	
	Volume Change, %	+4	0 to +25	
Z1	FDA Compliant 21 CFR177.2600			

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : N90

TEST REPORT

Typical properties of cured compound

Material : NBR 90 **Date issued : June 2016**
Color : Black

Spec: ASTM D2000 M4CH910 B14 EO15 EO35 Z1

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	86	90±5	D 2240-10
	Tensile Strength, min, MPa (psi)	16.2(2349)	10.0(1450)	D 412-13
	Elongation, min, %	192	100	D 412-13
Basic	Heat Resistance, 70 hrs at 125°C			D 573-10
	Hardness Change, max, points	+5	±15	
	Tensile Change, max, %	+4	±30	
	Elongation Change, max, %	-37	-50	
B14	Compression Set, Method B			D 395-08
	22 hrs at 100°C, max, %	12	25	
EO15	IRM 901 Oil Resistance, 70hrs at 125°C			D 471-12a
	Hardness Change, points	+3	0 to +10	
	Tensile Change, max, %	-2	-20	
	Elongation Change, max, %	-29	-35	
	Volume Change, %	-4	-15 to +5	
EO35	IRM 903 Oil Resistance, 70hrs at 125°C			D 471-12a
	Hardness Change, points	-3	±10	
	Tensile Change, max, %	+4	-15	
	Elongation Change, max, %	-18	-30	
	Volume Change, %	+8	0 to +25	
Z1	Retraction at Lower Temperature Resistance			D 1329
	51mm die, 50% elongation, °C	-21		

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : **S70-FDA**

TEST REPORT

Typical properties of cured compound

Material : Silicone 70, FDA
Color : Red/Rust

Date issued : June 2016

Spec: ASTM D2000 M5GE705 A19 B37 EO16 EO36 G11 F19 Z1

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	70	70±5	D 2240-10
	Tensile Strength, min, MPa	5.8	5	D 412-13
	Elongation, min, %	198	150	D 412-13
	Modulus at 100% elongation, psi	450	Report	D 412-13
A19	Heat Resistance, 70 hrs at 225°C			D 573-10
	Hardness Change, max, points	+3	+10	
	Tensile Change, max, %	-9	-25	
	Elongation Change, max, %	-24	-30	
B37	Compression Set, Method B			D 395-08
	22 hrs at 175°C, max, %	16	30	
EO16	IRM901 Oil Resistance, 70 hrs at 150°C			D 471-12a
	Hardness Change, points	-5	0 to -15	
	Tensile Change, max, %	-3	-20	
	Elongation Change, max, %	-6	-20	
	Volume Change, %	+5	0 to +10	
EO36	IRM903 Oil Resistance, 70 hrs at 150°C			D 471-12a
	Hardness Change, points	-17	-30	
	Volume Change, %	+33	+60	
G11	Tear Resistance, Die B			D 624-12
	min, kN/m	19	9	
F19	Low-temperature Resistance			D 2137-11
	Nonbrittle after 3 min at -55°C	Pass	Pass	
Z1	FDA Compliant 21 CFR177.2600			
	Temperature Range -60°F to +400°F			

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : V75

TEST REPORT

Typical properties of cured compound

Material : FKM 75 **Date issued : June 2016**
Color : Black

Spec: ASTM D2000 M2HK710 A1-10 B38 EF31 EO78 Z1

	Physical properties	Result	Spec.	ASTM Method
Z1	Hardness, Shore A (Type M)	75	75 ± 5	D 2240-10
	Tensile Strength, min, MPa	14.4	10	D 412-13
	Elongation, min, %	181	150	D 412-13
A1-10	Heat Resistance, 70 hrs at 250°C			D 573-10
	Hardness Change, max, points	+4	+10	
	Tensile Change, max, %	-9	-25	
	Elongation Change, max, %	-11	-25	
B38	Compression Set, Method B			D 395-08
	22 hrs at 200°C, max, %	12	50	
EF31	Fuel C Resistance, 70 hrs at 23°C			D 471-12a
	Hardness Change, points	-3	±5	
	Tensile Change, max, %	-16	-25	
	Elongation Change, max, %	-16	-20	
	Volume Change, %	+6	0 to +10	
EO78	Fluid No.101 Resistance, 70hrs at 200°C			D 471-12a
	Hardness Change, points	-1	-15 to +5	
	Tensile Change, max, %	-2	-40	
	Elongation Change, max, %	+9	-20	
	Volume Change, %	+14	+25	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : V75-BRW

TEST REPORT

Typical properties of cured compound

Material : FKM 75 **Date issued : June 2016**
Color : Brown

Spec: ASTM D2000 M2HK810 A1-10 B38 EF31 EO78 Z1

	Physical properties	Result	Spec.	ASTM Method
Z1	Hardness, Shore A (Type M)	75	75 ± 5	D 2240-10
	Tensile Strength, min, MPa	11.8	10	D 412-13
	Elongation, min, %	217	150	D 412-13
A1-10	Heat Resistance, 70 hrs at 250°C			D 573-10
	Hardness Change, points, max	+1	+10	
	Tensile Change, max, %	-7	-25	
	Elongation Change, max, %	-18	-25	
Basic	IRM 903 Oil Resistance, 70hrs at 150°C			D 471-12a
	Volume Change, %	+4	+10	
B38	Compression Set, Method B			D 395-08
	22 hrs at 200°C, max, %	11	50	
EF31	Fuel C Resistance, 70 hrs at 23°C			D 471-12a
	Hardness Change, points	-2	±5	
	Tensile Change, max, %	-17	-25	
	Elongation Change, max, %	-15	-20	
	Volume Change, %	+4	0 to +10	
EO78	Fluid No.101 Resistance, 70hrs at 200°C			D 471-12a
	Hardness Change, points	-5	-15 to +5	
	Tensile Change, max, %	-14	-40	
	Elongation Change, max, %	-11	-20	
	Volume Change, %	+10	0 to +15	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : V90

TEST REPORT

Typical properties of cured compound

Material : FKM 90 **Date issued : July 2016**
Color : Black

Spec: ASTM D2000 M2HK910 A1-10 B38 EF31 EO78

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	90	90 ± 5	D 2240-10
	Tensile Strength, min, MPa	13.9	10	D 412-13
	Elongation, min, %	138	100	D 412-13
A1-10	Heat Resistance, 70 hrs at 250°C			D 573-10
	Hardness Change, max, points	+3	+10	
	Tensile Change, max, %	+5	-25	
	Elongation Change, max, %	-10	-25	
B38	Compression Set, Method B			D 395-08
	22 hrs at 200°C, max, %	14	50	
Basic	IRM 903 Oil Resistance, 70hrs at 150°C			D 471-12a
	Volume Change, %	+3	+10	
EF31	Fuel C Resistance, 70 hrs at 23°C			D 471-12a
	Hardness Change, points	-3	±5	
	Tensile Change, max, %	-11	-25	
	Elongation Change, max, %	-8	-20	
	Volume Change, %	+2	0 to +10	
EO78	Fluid No.101 Resistance, 70hrs at 200°C			D 471-12a
	Hardness Change, points	-7	-15 to +5	
	Tensile Change, max, %	-14	-40	
	Elongation Change, max, %	-17	-20	
	Volume Change, %	+12	0 to +15	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved

POLYMER ENGINEERING CORPORATION

VILAS 769

PEC Compound : V90-BRW

TEST REPORT

Typical properties of cured compound

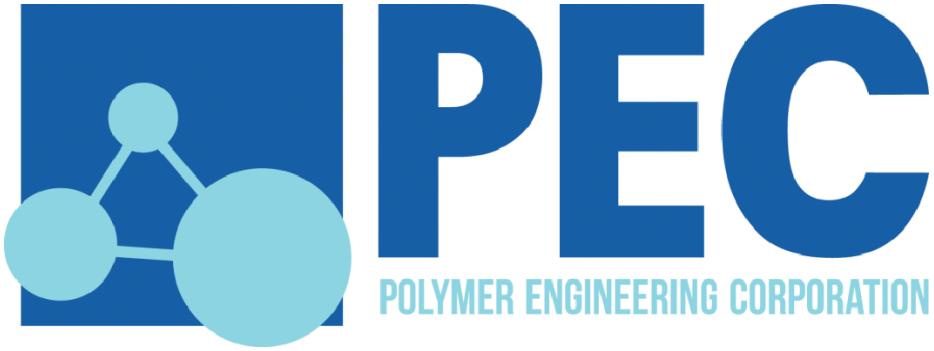
Material : FKM 90 **Date issued : July 2016**
Color : Brown

Spec: ASTM D2000 M3HK910 A1-10 B38 EF31 EO78

	Physical properties	Result	Spec.	ASTM Method
	Hardness, Shore A (Type M)	88	90 ± 5	D 2240-10
	Tensile Strength, min, MPa	14.3	10	D 412-13
	Elongation, min, %	114	100	D 412-13
A1-10	Heat Resistance, 70 hrs at 250°C			D 573-10
	Hardness Change, max, points	+2	+10	
	Tensile Change, max, %	+1	-25	
	Elongation Change, max, %	-4	-25	
B38	Compression Set, Method B			D 395-08
	22 hrs at 200°C, max, %	15	50	
Basic	IRM 903 Oil Resistance, 70hrs at 150°C			D 471-12a
	Volume Change, %	+4	+10	
EF31	Fuel C Resistance, 70 hrs at 23°C			D 471-12a
	Hardness Change, points	-3	±5	
	Tensile Change, max, %	-19	-25	
	Elongation Change, max, %	-11	-20	
	Volume Change, %	+4	0 to +10	
EO78	Fluid No.101 Resistance, 70hrs at 200°C			D 471-12a
	Hardness Change, points	-5	-15 to +5	
	Tensile Change, max, %	-27	-40	
	Elongation Change, max, %	-8	-20	
	Volume Change, %	+9	0 to +15	

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved



Inches	Millimeters
1/64	.015625	.3969
1/32	.03125	.7938
3/64	.046875	1.1906
1/16	.0625	1.5875
5/64	.078125	1.9844
3/32	.09375	2.3813
7/64	.109375	2.7781
1/8	.125	3.1750
9/64	.140625	3.5719
5/32	.15625	3.9688
11/64	.171875	4.3656
3/16	.1875	4.7625
13/64	.203125	5.1594
7/32	.21875	5.5563
15/64	.234375	5.9531
1/4	.250	6.3500
17/64	.265625	6.7469
9/32	.28125	7.1438
19/64	.296875	7.5406
5/16	.3125	7.9375
21/64	.328125	8.3344
11/32	.34375	8.7313
23/64	.359375	9.1282
3/8	.375	9.5250
25/64	.390625	9.9219
13/32	.40625	10.3188
27/64	.421875	10.7157
7/16	.4375	11.1125
29/64	.453125	11.5094
15/32	.46875	11.9063
31/64	.484375	12.3032
1/2	.500	12.7001

Inches	Millimeters
33/64	.515625	13.0969
17/32	.53125	13.4938
35/64	.546875	13.8907
9/16	.5625	14.2876
37/64	.578125	14.6844
19/32	.59375	15.0813
39/64	.609375	15.4782
5/8	.625	15.8751
41/64	.640625	16.2719
21/32	.65625	16.6688
43/64	.671875	17.0657
11/16	.6875	17.4626
45/64	.703125	17.8594
23/32	.71875	18.2563
47/64	.734375	18.6532
3/4	.750	19.0501
49/64	.765625	19.4470
25/32	.78125	19.8438
51/64	.796875	20.2407
13/16	.8125	20.6376
53/64	.828125	21.0345
27/32	.84375	21.4313
55/64	.859375	21.8282
7/8	.875	22.2251
57/64	.890625	22.6220
29/32	.90625	23.0188
59/64	.921875	23.4157
15/16	.9375	23.8126
61/64	.953125	24.2095
31/32	.96875	24.6063
63/64	.984375	25.0032
1	1.000	25.4001

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