



POLYURETHANE (HPU)



Standard Compounds for Machined Seal

Theroplastic polyurethane Hydrolysis-resistant Polyurethane (**HPU**) is not only abrasion resistant, wear resistant, and resistant to tear propagation, it is also hydrolysis resistant, which means that it can safely be used with drinking water.

Compound	---	S24 P10	S24 P11	S24 P12	S24 P20	S24 P21	S24 P22
Features	---	HPU	HPU	HPU	HPU	HPU	HPU
Color	---	Red	Red	Blue DK	Yellow	Yellow	Black
Hardness ISO 868	Shore	95 A	96 A	96 A	55 D	57 D	70 D
Minimum Temperature	°F	-4	-35	-67	-4	-22	-4
Maximum Temperature	°F	240	230	230	240	230	230
Modulus @ 100% DIN 53504	psi	≥ 2175	≥ 1740	≥ 1740	≥ 2900	≥ 2900	≥ 4350
Tensile Strenght DIN 53504	psi	≥ 7250	≥ 6525	≥ 6525	≥ 6530	≥ 6530	≥ 7250
Elongation @ Break DIN 53504	%	≥ 350	≥ 450	≥ 550	≥ 340	≥ 350	≥ 150



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Tear Strength DIN ISO 34-1	lbf/inch	≥ 570	≥ 450	≥ 450	≥ 630	≥ 630	≥ 625
Specific Gravity ISO 1183	g/cm ³	1.2	1.13	1.13	1.21	1.16	1.21
Rebound Elasticity DIN 53512	%	---	---	---	---	---	---
Abrasion DIN 53516	mm ²	17	20	17	25	25	---
Compression Set ISO 815 24h 158 °F 25% def	%	≤ 27	≤ 30	≤ 27	≤ 30	≤ 30	---
Compression Set ISO 815 24h 212 °F 25% def	%	≤ 33	≤ 35	≤ 33	≤ 35	≤ 35	---
Compression Set ISO 815 24h 302 °F 25% def	%	---	---	---	---	---	---

TEST DATA ONLY - DO NOT USE FOR SPECIFICATION

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