



POLYURETHANE

Standard Compounds for Machined Seal



Urethane or polyurethane seals are among the most versatile and durable materials used in fluid power sealing.

Urethanes are cast or injection molded into billets to create the seals used in many different industries

The material benefits from countless possible chemical formulae, providing a wide range of sealing characteristics to suit nearly every application.

Compound	---	S24 P50	S24 P51		
Features	---	Polyurethane	Casted thermoplastic polyurethane with solid lubricant		
Color	---	Green	Grey		
Hardness ISO 868	Shore A	93 A	96 A		
Minimum Temperature	°F	-22	-4		
Maximum Temperature	°F	230	230		
Modulus @ 100% DIN 53504	psi	≥ 1880	≥ 1740		
Tensile Strength DIN 53504	psi	≥ 7250	≥ 6525		
Elongation @ Break DIN 53504	%	≥ 500	≥ 350		
Tear Strength DIN ISO 34-1	lbf/inch	≥ 570	≥ 450		



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Compound	---	S24 P50	S24 P51		
Specific Gravity ISO 1183	g/cm ³	1.2	1.19		
Rebound Elasticity DIN 53512	%	---	---		
Abrasion DIN 53516	mm ²	35	15		
Compression Set ISO 815 24h 158 °F 25% def	%	≤ 25	≤ 30		
Compression Set ISO 815 24h 212 °F 25% def	%	≤ 33	≤ 35		
Compression Set ISO 815 24h 302 °F 25% def	%	---	---		

TEST DATA ONLY - DO NOT USE FOR SPECIFICATION

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