

Material Properties

Self-Lubricating Polyurethane

Material code: 2010

Excellent wear and extrusion resistance. Suitable for use in high pressure hydraulic sealing applications and for hydraulic applications where water based fluids are being used.

Physical Properties	ASTM Method	Typical Values
Specific Gravity	D792	1.26 gr/cm ³
Water Absorption (24 hrs. @ 74°F)	D570	N/A
Color	N/A	Red
Mechanical Properties		
Tensile Strength	D412	6525 psi
Elongation	D412	
• At 800 psi		100%
• At 2000 psi		300%
• At Break		500%
Compression Set Method B (At 158°F for 22 hours)	D395	10%
Tribological Properties		
Coefficient of friction	D3702	
• Static		0.40
• Dynamic		0.30
Thermal Properties		
Continuous Service Temperature (Max @ no load)		248°F
Tear Properties		
Aplit Tear	D470	
• At 77°F		140 pil
• At 212°F		70 pil
• At 257°F		55 pil
Die C Tear	D624	400 pil
Basehore Rebound	D2632	40

Note: Property values should be interpreted as typical rather than minimum value. All technical information and recommendations are presented in good faith, and based upon laboratory and real-world tests believe to be reliable and practical. However, K.C. Seals, Inc. cannot guarantee the accuracy or completeness of this information, and it is the customers' responsibility to determine product suitability to any given application.

