

Material Properties

Hydrolysis Resistant Polyurethane

Material code: 2020

Developed for the Drinking Water Sector. Free of plasticisers.

With hydrolysisresistant polyurethanes which have been specially developed with drinking water applications in mind, KC Seals is now offering an interesting alternative to conventional materials which features many benefits, including excellent wear resistance, highly adjustable hardness range; good tensile strength and breaking elongation; Resistance to mineral oils in wide temperature ranges; High ozone and oxidation resistance; Excellent damping behavior; Enormous resistance to crack formation and crack growth.

Physical Properties	ASTM Method	Typical Values
Specific Gravity	D792	1.13 gr/cm 3
Water Absorption (24 hrs. @ 74°F)	D570	N/A
Color	N/A	Red
Mechanical Properties		
Tensile Strength	D412	
• At 77°F		7250 psi
• At 212°F		4000 psi
• At 257°F		2400 psi
Elongation (At 77°F)	D412	
• At 2200 psi		100%
• At 2900 psi		200%
• At 4600 psi		300%
• At Break		350%
Compression Set Method B (At 158°F for 22 hours)	D395	36%
Tribological Properties		
Coefficient of friction	D3702	
• Static		0.40
• Dynamic		0.30
Thermal Properties		
Continuous Service Temperature (Max @ no load)		266°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	650 pil
Basehore Rebound	D2632	44

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.

