

Precision Polymer Engineering Q90B Polyurethane Rubber

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Peroxide cured, Polyurethane Rubber, 85-95 °IRHD. Polyester-based urethane. To meet ASTM line call-out M5BG910, B14, E014, E034.

ASTM & ISO designation = AU.Applications: Excellent abrasion resistance and tensile strength, with fluid compatibility approaching that of NBR. Polyurethane seals provide outstanding performance in hydraulic systems, which are prone to abrasive contamination and high shock loads. Good resistance to weathering and ozone but poor against water and high temperature.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Q90B-Polyurethane-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	°IRHD; ASTM D1415
	105	105	°IRHD, +15 change after 70 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	8.00 MPa	1160 psi	-20% change after 70 hours @ 100°C; ASTM D412
	10.0 MPa	1450 psi	ASTM D412
Elongation at Break	60.0 %	60.0 %	-40% change after 70 hours @ 100°C; ASTM D412
	100 %	100 %	ASTM D412
Compression Set	25 %	25 %	70 hours @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-35.0 °C	-31.0 °F	Non-brittle after 3 minutes
	-30.0 °C	-22.0 °F	
Flash Point	>= 204 °C	>= 399 °F	

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