

Precision Polymer Engineering R50D Natural Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Natural Rubber, 45-55 °IRHD. Formulated to Defence Standard 93-30, Type QX, Grade 50 (NRQX50). Applications: Natural rubber offers low compression set, high tensile strength, high resilience and excellent resistance to tear and abrasion. The designation `Type QX` indicates that the material is suitable for certain applications where a high degree of compatibility with explosives is a requirement. However, compatibility with all explosives in all environments has not been established and design authorities should seek advice on particular applications from the Director, Defence Research Agency (Military Division), Fort Halstead, Sevenoaks, Kent, TN14 7BP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-R50D-Natural-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	50 - 54	50 - 54	°IRHD, -0/+4 change after 168 hours @ 70°C; ASTM D1415
Tensile Strength, Yield	12.75 MPa	1849 psi	-15% change after 168 hours @ 70°C; ASTM D412
	15.0 MPa	2180 psi	ASTM D412
Elongation at Break	425 %	425 %	-15% change after 168 hours @ 70°C; ASTM D412
	500 %	500 %	ASTM D412
Compression Set	35 %	35 %	24 hours @ 70°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Flash Point	>= 300 °C	>= 572 °F	

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