

Precision Polymer Engineering E80E Ethylene Propylene Rubber

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

Material Notes:

General Purpose, Ethylene Propylene Terpolymer (EPT) 75-85 IRHD. Terpolymer of ethylene, propylene and diene monomers. To meet Aerospace specification DTD 5597A Grade 80. ASTM & ISO designation = EPDM. Applications: For sealing applications where good fluid resistance and low compression set are of prime importance. For continuous and/or intermittent use in contact with phosphate ester or silicone hydraulic fluids within the temperature ranges as quoted. Suitable for applications in contact with air, this material has excellent resistance to ozone. Unsuitable for use in contact with fuels, mineral oil based and diester oils and silicate fluids or greases derived from these.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-E80E-Ethylene-Propylene-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	°IRHD; ASTM D1415
	90	90	°IRHD, +10 change after 168 hours @ 125°C; ASTM D1415
Tensile Strength, Yield	9.775 MPa	1418 psi	-15% change after 168 hours @ 125°C; ASTM D412
	11.5 MPa	1670 psi	ASTM D412
Elongation at Break	136 %	136 %	-20% change after 168 hours @ 125°C; ASTM D412
	170 %	170 %	ASTM D412
Compression Set	20 %	20 %	24 hours @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
	-40.0 °C	-40.0 °F	Temperature at which rigidity modulus shall not exceed 70 Mpa
Flash Point	>= 200 °C	>= 392 °F	

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