

Precision Polymer Engineering E70H Ethylene Propylene Rubber

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

Material Notes:

Peroxide cured, white Ethylene Propylene Terpolymer, 66-75 °IRHD. Terpolymer of ethylene, propylene and diene monomers. Formulated using only those ingredients determined by the United States Federal Food and Drug Administration (FDA) to be in accordance with Code of Federal Regulations Title (CFR21), Section 177.2600. Extraction tested in distilled water. Also complies with the requirements of USP 25, NF20, 2002, Class 6. Applications: Excellent water and steam resistance with good compression set properties. Heat and chemical resistance is superior to that of sulphur cured EPDM. Not oil resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-E70H-Ethylene-Propylene-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
	75	75	°IRHD, +5 change after 70 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	4.75 MPa	689 psi	-5% change after 70 hours @ 100°C; ASTM D412
	5.00 MPa	725 psi	ASTM D412
Elongation at Break	297.5 %	297.5 %	-15% change after 70 hours @ 100°C; ASTM D412
	350 %	350 %	ASTM D412
Compression Set	25 %	25 %	24 hours @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
	-40.0 °C	-40.0 °F	Non-brittle after 3 minutes
Flash Point	>= 200 °C	>= 392 °F	

Descriptive Properties	Value	Comments
Extraction Test, 21 CFR 177.2600	pass	Distilled Water
	pass	n-Hexane

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