

## Precision Polymer Engineering E50Q Ethylene Propylene Rubber

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

**Material Notes:**

Peroxide cured, Ethylene Propylene Terpolymer, 46-55 °IRHD. Terpolymer of ethylene, propylene and diene monomers. Complies with FDA code of Federal regulations title CFR21 section 177.2600. Water and n-hexane tested. Also complies to the requirements of USP 25, NF20, 2002, Class 6. To meet ASTM D2000/SAE J200 line call-out M3CA507, A25, B35, EA14, F17. 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-E50Q-Ethylene-Propylene-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-E50Q-Ethylene-Propylene-Rubber.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53	53	°IRHD; ASTM D1415
	58	58	°IRHD, +5 change after 70 hours @ 125°C; ASTM D1415
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D412
	11.5 MPa	1670 psi	15% change after 70 hours @ 125°C; ASTM D412
Elongation at Break	340 %	340 %	-15% change after 70 hours @ 125°C; ASTM D412
	400 %	400 %	ASTM D412
Compression Set	30 %	30 %	22 hours @ 125°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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