

Precision Polymer E50Q

Ethylene Propylene Diene Terpolymer

Precision Polymer Engineering Ltd.

Message:

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.
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.

General Information			
Features	Steam resistance		
	Low or no water absorption		
Agency Ratings	FDA 21 CFR 177.2600		
	USP XXV, Class VI		
	USP Class VI		
Hardness	Nominal Value		Test Method
IRHD Hardness	53		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	400	%	ASTM D412, ISO 37
Compression Set			
125°C, 22 hr	30	%	ASTM D395B
125°C, 22 hr ¹	30	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 70 hr)	15	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (125°C, 70 hr)	-15	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (125°C, 70 hr)	5.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	150	°C	
Low Temperature Resistance - Non-brittle for 3 minutes			
--	-40	°C	ISO R812
--	-40	°C	ASTM D2137
Additional Information	Nominal Value	Unit	Test Method
Minimum Operating Temperature: -40°C (-40°F)			
NOTE			
1.	Type B		

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