

Precision Polymer E70H

Ethylene Propylene Diene Terpolymer

Precision Polymer Engineering Ltd.

Message:

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 and N-hexane. Also complies with the requirements of USP 25, NF20, 2002, Class 6. 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		
Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	350	%	ASTM D412, ISO 37
Compression Set			
100°C, 24 hr	25	%	ASTM D395B
100°C, 24 hr ¹	25	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 70 hr)	-5.0	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (100°C, 70 hr)	-15	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (100°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			

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