

Precision Polymer E80E

Ethylene Propylene Diene Terpolymer

Precision Polymer Engineering Ltd.

Message:

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.

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.

General Information			
Features	Ozone resistance		
Uses	General		
Hardness	Nominal Value		Test Method
IRHD Hardness	80		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.5	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	170	%	ASTM D412, ISO 37
Compression Set (100°C, 24 hr)	20	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 168 hr)	-15	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (125°C, 168 hr)	-20	%	ASTM D573, ISO 188
Change in IRHD Hardness in Air (125°C, 168 hr)	10		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	160	°C	
Low Temperature Resistance - at which rigidity modulus shall not exceed 70MPa	-40	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -60°C (-76°F)			

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