

Precision Polymer E80Q

Ethylene Propylene Diene Terpolymer

Precision Polymer Engineering Ltd.

Message:

E80Q is a peroxide-cured, Ethylene Propylene Terpolymer material formulated using only those ingredients determined by the US Food and Drug Administration (FDA). E80Q is suitable for use in food contact applications requiring FDA and 3A compliance.

E80Q provides excellent water and steam resistance and good compression set properties. The material's heat and chemical resistance is superior to that of sulphur-cured EPDM.

Available in any sized O-ring (fully moulded up to 2.5m/8ft internal diameter), gaskets and custom designed components.

Key Attributes

- FDA compliant to CFR 21 § 177.2600 (a-d)
- 3A Sanitary Standard 18-03 Class 2 compliant
- Free from Animal Derived Ingredients (ADI)

Typical Attributes

Recommended for use in food and dairy applications.

O-rings

Gaskets

Hygienic/sanitary couplings & pipe connectors

Valves

Pumps

Metering equipment

General Information			
Features	Steam resistance		
	Compliance of Food Exposure		
	Low or no water absorption		
Uses	Pump parts		
	Washer		
	Valve/valve components		
	Non-specific food applications		
	Pipe seal		
	Piping system		
	Connector		
	Bathroom products		
Agency Ratings	FDA 21 CFR 177.2600		
	FDA Food Exposure, Not Rated		
Appearance	Black		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	77		ASTM D2240
IRHD Hardness	78		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.00	MPa	ASTM D412, ISO 37

Tensile Elongation (Break)	220	%	ASTM D412, ISO 37
Compression Set (125°C, 22 hr)	21	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	150	°C	
Low Temperature Resistance - Non-brittle for 3 mins	-40	°C	ISO R812
Additional Information	Nominal Value	Unit	Test Method

Minimum Operating Temperature: -40°C (-40°F)

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