

Precision Polymer E70Q

Ethylene Propylene Diene Terpolymer

Precision Polymer Engineering Ltd.

Message:

E70Q is a peroxide-cured, Ethylene Propylene Terpolymer material suitable for use in all types of applications requiring FDA, USP and 3A compliance. It is suitable for use in all food contact applications including dry, aqueous and fatty* media. E70Q provides excellent water and steam resistance and is widely used in equipment associated with the production of foodstuffs intended for human consumption and biomedical applications. Available in any sized O-ring (fully moulded up to 2.5m/8ft internal diameter), gaskets and custom designed components.

Key Attributes

FDA compliant - extraction tested to CFR 21 § 177.2600 (e,f)

USP Class VI <88> and USP <87> compliant

3A Sanitary Standard 18-03 Class 2 compliant

Free from Animal Derived Ingredients (ADI)

Typical Applications

Recommended for use in food, dairy, biomedical and pharmaceutical applications.

O-rings

Gaskets

Hygienic/sanitary couplings & pipe connectors

Valves

Pumps

Metering equipment

General Information			
Features	Steam resistance		
	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		
	USP Class VI		
	USP Not Rated		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.5	MPa	ASTM D412, ISO 37

Tensile Elongation (Break)	400	%	ASTM D412, ISO 37
Compression Set			ASTM D395, ISO 815
125°C, 22 hr	17	%	ASTM D395, ISO 815
130°C, 120 hr	22	%	ASTM D395, ISO 815
130°C, 672 hr	31	%	ASTM D395, ISO 815
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)

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