

Precision Polymer N70F

Acrylonitrile Butadiene Rubber
Precision Polymer Engineering Ltd.

Message:

N70F is a copolymer of acrylonitrile and butadiene, 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 21 (CFR21), Section 177.2600 and Section 180.22. 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)

3A Sanitary Standard 18-03 Class 2 compliant

Free from Animal Derived Ingredients

Typical Applications

Recommended for use in equipment associated with the production of foodstuffs intended for human consumption.

O-rings

Gaskets

Hygienic/sanitary couplings & pipe connectors

Valves

Pumps

Metering equipment

General Information			
Features	Copolymer		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Pump parts		
	Washer		
	Valve/valve components		
	Pipe seal		
	Piping system		
	Connector		
	Bathroom products		
Agency Ratings	FDA 21 CFR 177.2600		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	250	%	ASTM D412, ISO 37
Compression Set			ASTM D395, ISO 815
70°C, 24 hr	22	%	ASTM D395, ISO 815
100°C, 24 hr	28	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	121	°C	

Low Temperature Resistance - Non-brittle
for 3 mins

--	-40	°C	ISO R812
--	-40	°C	ASTM D2137

Additional Information	Nominal Value	Unit	Test Method
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Minimum Operating Temperature: -40°C (-40°F)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

