

Precision Polymer Z70F

Acrylonitrile Butadiene Rubber
Precision Polymer Engineering Ltd.

Message:

Z70F is a medium acrylonitrile (ACN = 34%), HNBR compound formulated using only those ingredients determined by the US Food and Drug Administration (FDA).

The high mechanical strength of Z70F provides excellent wear and abrasion resistant properties when used in dynamic applications. Z70F offers excellent steam and chemical resistance to a broad range of media, making it ideal for use in various applications requiring FDA and 3A compliance. It is suitable for use in all food contact applications including dry, aqueous and fatty media.

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

Key Attributes

- Excellent chemical and steam resistance
- Higher maximum operating temperature than standard nitrile (NBR)
- High mechanical strength
- FDA compliant - extraction tested to CFR 21 § 177.2600 (e,f)
- 3A Sanitary Standard 18-03 Class 3 compliant
- Free from Animal Derived Ingredients

Typical Applications

Recommended for use in food and dairy production and processing equipment, for both static and dynamic applications.

General Information			
Features	High strength		
	Good wear resistance		
	Good chemical resistance		
	Good wear resistance		
	Steam resistance		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Non-specific food applications		
Agency Ratings	FDA 21 CFR 177.2600		
	FDA Food Exposure, 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)	16.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	250	%	ASTM D412, ISO 37
Compression Set (125°C, 72 hr)	25	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 70 hr)	-15	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (150°C, 70 hr)	-25	%	ASTM D412, ISO 37

Change in IRHD Hardness in Air (150°C, 70 hr)		10	ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	180	°C	
Low Temperature Resistance - Non Brittle for 3 mins	-40	°C	ASTM D2137
Additional Information	Nominal Value	Unit	Test Method
Minimum Operating Temperature: -40°C (-40°F)			

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