

# Precision Polymer N70J

Acrylonitrile Butadiene Rubber

Precision Polymer Engineering Ltd.

## Message:

Peroxide cured Nitrile Butadiene Rubber (NBR), 66-75 °IRHD. Copolymer of acrylonitrile and butadiene. To meet DTD 5594A standard for resistance to mineral oils.

Excellent resistance in sealing applications for mineral oils. Excellent compression set, tear and abrasion resistance. Good water resistance but poor against ozone and weather.

General Information			
Features	Copolymer		
	Good tear strength		
	Good wear resistance		
	Oil resistance		
	Low or no water absorption		
Agency Ratings	DTD 5594A		
Hardness	Nominal Value		Test Method
IRHD Hardness	73		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	200	%	ASTM D412, ISO 37
Compression Set (100°C, 24 hr)	30	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	25	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (100°C, 168 hr)	-16	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (100°C, 168 hr)	6.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	120	°C	
Low Temperature Resistance - Temp at which modulus shall not exceed 70Mpa	-25	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -30°C (-22°F)			

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