

Precision Polymer N70L

Acrylonitrile Butadiene Rubber

Precision Polymer Engineering Ltd.

Message:

Nitrile Butadiene Rubber (NBR), 70 IRHD. Low- Med acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet: ASTM D2000/SAE J200 line call-out: M5BG710, A14, B14, EO14, EO34, F17.

The low acrylonitrile content of this compound provides excellent low temperature flexibility, in sealing conditions where resistance to mineral oil, alcohol, paraffin and low-aromatic petrol is required. Not recommended for use with acetone, benzene, chlorinated solvents or high-aromatic petrol. Good water resistance but poor against ozone and weather.

General Information			
Features	Flexibility at low temperatures		
	Copolymer		
	Low or no water absorption		
Hardness	Nominal Value		Test Method
IRHD Hardness	65 - 75		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 (100°C, 22 hr)	> 25	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 70 hr)	< -20	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (100°C, 70 hr)	< -40	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (100°C, 70 hr)	-15 - 15		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	120	°C	
Low Temperature Resistance - Non-brittle after 3 minutes	-40	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -40°C (-40°F)			

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