

# Precision Polymer N70M

Acrylonitrile Butadiene Rubber  
Precision Polymer Engineering Ltd.

Message:

N70M is a NBR copolymer that provides excellent resistance to petroleum based oils and fuels.  
N70M has been developed to offer excellent mechanical properties such as compression set, tear and abrasion resistance, making it ideal for dynamic applications. Good water resistance is also a characteristic of this material.  
Meets BS2751 BA70 and ASTM D2000/SAE J200 line call-out M2BG 714, B14, EA14, EF11, EF21, EO14, EO34 and F17.

Key Attributes

- Low temperature flexibility
- Stability to mineral oils and hydraulic fluids
- Good resilience

Typical Applications

- Topside pipe systems
- General purpose sealing applications

General Information			
Features	Copolymer		
	Good tear strength		
	Good wear resistance		
	Fuel resistance		
	Oil resistance		
	Low or no water absorption		
Uses	Pipe seal		
	Piping system		
	Seals		
	Oil/Gas Supplies		
	General		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	75		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
50% strain	2.50	MPa	
100% strain	5.00	MPa	
Tensile Strength (Yield)	14.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	350	%	ASTM D412, ISO 37
Compression Set (100°C, 24 hr)	25	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (70°C, 168 hr)	5.0	%	ASTM D412, ISO 37

Change in Ultimate Elongation in Air (70°C, 168 hr)	-7.0	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (70°C, 168 hr)	2.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	120	°C	
Low Temperature Resistance			
Low temperature Modulus at -30°C	5.50	MPa	
Non-brittle after 3 minutes	-40	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -40°C (-40°F)			

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