

# Precision Polymer N90M

Acrylonitrile Butadiene Rubber  
Precision Polymer Engineering Ltd.

Message:

Nitrile Rubber, 85-95 °IRHD. Meets British Standard BS2751 BA90. Medium acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. ASTM designation = NBR. ISO designation = NBR.  
Excellent resistance to petroleum based oils and fuels. 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		
	Fuel resistance		
	Oil resistance		
Agency Ratings	BS 2751 BA90		
Hardness	Nominal Value		Test Method
IRHD Hardness	90		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12.5	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	100	%	ASTM D412, ISO 37
Compression Set			
70°C, 24 hr	25	%	ASTM D395B
70°C, 24 hr <sup>1</sup>	25	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (70°C, 70 hr)	10	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (70°C, 70 hr)	10	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (70°C, 70 hr)	5.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	120	°C	
Low Temperature Resistance			
Non-brittle after 3 minutes	-35	°C	
Temp at which stiffness does not exceed 70Mpa	-20	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -30°C (-22°F)			
NOTE			
1.	Type B		

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