

N90M

Multi-purpose 90 Durometer NBR Elastomer

Description

N90M is medium acrylonitrile (ACN) content nitrile rubber for general service in pumps, valves and fluid handling equipment. N90M provides excellent resistance to petroleum based oils.

N90M offers excellent compression set, tear and abrasion resistance for a variety of applications where a high quality elastomer is needed for reliability and durability. The material has good aqueous resistance but poor against ozone and weather.

Key Attributes

- ▶ Meets British Standard BS2751 BA90
- ▶ Multi-purpose elastomer for high pressures
- ▶ Excellent tear and abrasion resistance

Typical Applications

- ▶ Valves
- ▶ Pump Seals
- ▶ Fluid Power
- ▶ General High Pressure Oil Sealing

Other high pressure resistant elastomers

EnDura[®] Z95X (HNBR)

EnDura[®] A90H (FEPM)

EnDura[®] V91J (FKM)

Perlast[®] G92E (FFKM)

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Typical Material Properties

Property	ASTM	ISO	Value
Material Type	NBR	NBR	Copolymer
Colour			Black
Hardness: (°IRHD)	D1415	ISO48	90
Tensile Strength (MPa)	D412	ISO37	12.5
Elongation at break (%)	D412	ISO37	100
Compression Set: 24 hrs @ 70°C (158°F)	D395	ISO815	25
Minimum Operating Temperature			-30°C (-22°F)
Maximum Operating Temperature			+120°C (+248°F)
Heat Resistance: 70 hrs @70°C (158°F)	D573	ISO188	
Hardness change (points)	D1415	ISO48	5
Tensile strength change	D412	ISO37	10
Elongation at break change	D412	ISO37	10
Low Temperature Resistance: Non-brittle after 3 minutes Temp at which stiffness does not exceed 70MPa			-20°C -35°C

SPECIAL NOTE: This information is to the best of our knowledge accurate and reliable. However, Precision Polymer Engineering Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life. Therefore a regular programme of inspection and replacement is strongly recommended.

The material properties above should not to be used for specification purposes.