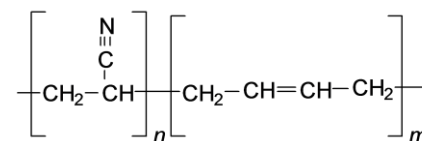


ELASTOMER

Acrylonitrile Butadiene Rubber (NBR)



SPECIFICATIONS

Property	Standard(s)	Value(s)	Unit(s)
Hardness	ASTM D 2240	77	Shore A
Specific Gravity	ASTM D 1817	1.24	g/cm ³
Tensile Strength	ASTM D 412/c	20.5 2,973	MPa psi
Modulus	ASTM D 412/C	5.7 827	MPa psi
Tear Strength	ASTM D 624/B	58 331	kN/m lbf/inch
Ultimate Elongation	ASTM D 412/C	324	%
Compression Set (24h @ 70°C)	--	--	%
Compression Set (24h @ 125°C)	ASTM D 395/B	36	%
Compression Set (24h @ 150°C)	--	--	%
Abrasion Resistance	ASTM D 1630	--	mm ³ inch ³
Service Temperature, MIN	--	-10 +14	°C °F
Service Temperature, MAX	--	+100 +212	°C °F
Service Temperature, MAX (H ₂ O)	--	-- --	°C °F
Service Temperature, MAX (H ₂ O/Glycol)	--	-- --	°C °F
Use in Food Applications	--	No	--
Color	--	Black	--
Shelf Life ¹	--	7/+3	Years

Note(s):

- Shelf life value(s) listed are IAW SSI *Materials Storage* and all of the parameter(s) of that document MUST be followed to achieve the stated shelf life.
- See systemseals.com for fluid compatibility information.

DESCRIPTION

MN09 is a NBR material with hardness 77 Shore A. Nitrile elastomer NBR is an amorphous random copolymer of butadiene and acrylonitrile. There are numerous NBR copolymers available globally. As a thermoset elastomer, an NBR compound consists of NBR copolymer, carbon black reinforcement fillers, curing agents, molding process aids and specialty additives. NBR articles are molded by injection, transfer, compression or extrusion processes. NBR is suitable for a wide variety of applications. The essential feature of NBR elastomers is the presence of Nitrile functional group. This polar group responsible for its significantly increased chemical resistance.