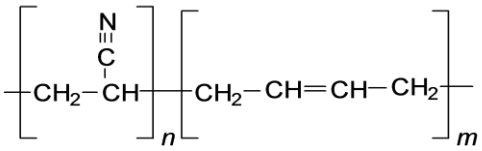
systemseals

MATERIAL SPECIFICATION SHEET

MN07

Carboxylated Nitrile (XNBR)



SPECIFICATIONS

Property	Spec	Value
Hardness		89
Tensile		2,300 psi
Elongation		450%
Modulus at 100%		250 psi
Modulus at 200%		900 psi
Tear PLI		250 psi
Compression Set		40%
Low Temp		-30°F
Max Temp		+250°F
Color		Black

DESCRIPTION

MN07 is a NBR material with hardness 89, is an improved version of NBR. The addition of carboxyl groups linked with zinc give improved physical properties as compared to non-carboxylated nitrile rubber. 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 lends itself to a virtually infinite number of compounded materials and versatile in applications. The essential feature of NBR elastomer is the presence of Nitrile, functional group. This polar group is responsible for its significantly increased chemical resistance.