



MATERIAL XNBR 70 Shore Black

DESCRIPTION XNBR (Carboxolated Nitrile Rubber) Krynac
ACN content is 27%
Cure system is sulphur

APPLICATION This material has excellent resistance to aliphatic hydrocarbons (eg. propane, butane, and petroleum), mineral oils/greases, vegetable/animal oils/greases, heating oil and diesel fuel. The blend (Terpolymer) is based on butadiene, acrylonitrile and (meth)acrylic acid, and results in superior abrasion resistance when subject to dynamic stress.

TEMPERATURE Low temperature service limit -15°F (-26°C)
Upper temperature continuous service limit +212°F (+100°C)

PRODUCTS Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.21
Durometer shore A (slab)	ASTM D2240	72
Elongation % (Dumbbell)	ASTM D412	503
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2264 (16.7)
Compression set % 22h @ 212°F (100°C) (slab)	ASTM D395B	25.0

HEAT AGEING 70h @ 302°F (150°C) ASTM D573

Durometer change points shore A	+7
Elongation change %	-18.1
Tensile strength change Psi (Mpa)	+298 (2)
Weight loss grams	0.10

FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471

Volume change %	-0.56
Durometer change points shore A	+1.5
Elongation change %	-234
Tensile strength change Psi (Mpa)	+438 (3)

Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It is not intended to substitute any testing you may need to conduct to determine suitability of our products for your end use. Northern Engineering reserves the right to revise this information as new knowledge and experience becomes available. Northern Engineering makes no warranties and assumes no liability in connection with any use of the above information.