



MATERIAL Nitrile 60 Shore Black
ASTM D 2000 M2BG 610 B14 EO34

DESCRIPTION NBR Acrylonitrile-Butadiene-Rubber
ACN content is 33%
Cure system is sulphur

APPLICATION This material has excellent resistance to aliphatic hydrocarbons (e.g. propane, butane and petroleum), mineral oils/greases, vegetable/animals oils/greases, heating oil and diesel fuel.

TEMPERATURE Low temperature service limit -22°F (-30°C)
Upper temperature continuous service limit +248°F (+120°C)

PRODUCTS Extrusions (cords/profiles/tubes)
Hot Vulcanised O rings
Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.27
Durometer shore A (slab)	ASTM D2240	55
Elongation % (Dumbbell)	ASTM D412	564
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1406 (9.7)
Compression set % 22h @ 212°F (100°C) (slab)	ASTM D395B	41.8

HEAT AGEING 70h @ 212°F (100°C) ASTM D573

Durometer change points shore A	+5
Elongation change %	-28
Tensile strength change Psi (Mpa)	-58 (-0.4)

FLUID IMMERSION Oil No 3 70h @ 212°F (100°C) ASTM D471

Volume change %	+4.3
Durometer change points shore A	+2
Elongation change %	-60
Tensile strength change Psi (Mpa)	-275 (-1.9)

Information

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