



MATERIAL HNBR 75 Shore Black

DESCRIPTION HNBR (Hydrogenated Acrylonitrile-Butadiene-Rubber)
ACN content is 34%, hydrogenation is 99.5%
Cure system is peroxide

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. Due to hydrogenation of the double bond in the butadiene and the peroxide cure system, higher service temperature and abrasion resistance properties are achieved.

TEMPERATURE Low temperature service limit -22°F (-30°C)
Upper temperature continuous service limit +302°F (+150°C)

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

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.24
Durometer shore A (slab)	ASTM D2240	73
Elongation % (Dumbbell)	ASTM D412	360
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2612 (18.0)
Compression set % 22h @ 302°F (150°C) (slab)	ASTM D395B	21

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

Durometer change points shore A	+4
Elongation change %	-4
Tensile strength change Psi (Mpa)	-207 (1.43)
Weight loss grams	0.06

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

Volume change %	+17
Durometer change points shore A	-7.4
Elongation change %	-23
Tensile strength change Psi (Mpa)	+14.5 (+1)

Information

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