



### MATERIAL

NBR 90 Shore Black  
ASTM D 2000 M2BG 912 B14E034

### DESCRIPTION

NBR (Acrylonitrile-Butadiene-Rubber)  
ACN content is 34%  
Cure system is sulphur

### APPLICATION

This material has excellent resistance to aliphatic hydrocarbons (e.g. propane, butane and petroleum), mineral oils/greases, vegetable/animal 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	1.31
Durometer shore A (slab)	ASTM D2240	86
Elongation % (Dumbbell)	ASTM D412	217
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2119 (14.6)
Compression set % 22h @ 212°F (100°C) (slab)	ASTM D395B	17

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

Durometer change points shore A	+3
Elongation change %	-18
Tensile strength change Psi (Mpa)	+580 (4)
Weight loss grams	0.04

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

Volume change %	+4.96
Durometer change points shore A	0
Elongation change %	+3.18
Tensile strength change Psi (Mpa)	+454 (3.13)

#### Information

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