

**MATERIAL** Genuine FKM 'A' 70 Shore Black  
ASTM D 2000 M2HK 712 B37

**DESCRIPTION** Low compression set FKM 'A' O ring grade  
Copolymer with 66% fluorine content  
Cure system is Bisphenol  
Carbon nanotube filled  
Conductive grade

**APPLICATION** This material has excellent resistance to oils, fuels, lubricants, most mineral acids aliphatic and aromatic hydrocarbons.

**TEMPERATURE** Low temperature service limit -5°F (-15°C)  
Upper temperature continuous service limit +400°F (+204°C)

**PRODUCTS** Moulding (custom/O rings)

## PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.85
Durometer shore A (slab)	ASTM D2240	71
Elongation % (Dumbbell)	ASTM D412	242
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2045 (14.1)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	12.6
Conductivity kOhm on 6mm disk	Megger 100 V	0.65
Low temperature TR-10°F (°C)*	ASTM D1329	-0.4 (-18)

\*Nominal value based on typical 75 shore vulcanizate

### HEAT AGEING 70h @ 482°F (250°C) ASTM D573

Durometer change points shore A	+4
Elongation change %	-7.4
Tensile strength change Psi (Mpa)	+130 (-0.9)
Weight loss %	-3

### FLUID IMMERSION ASTM 3 70h @ 302°F (150°C) ASTM D471

Volume change %	+2.3
Durometer change points shore A	0
Elongation change %	+8
Tensile strength change Psi (Mpa)	-0 (0)

#### 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.