



MATERIAL

FKM 85 Shore Brown
ASTM D 2000 M2 HK A1-10 B37

DESCRIPTION

Low compression set FKM O ring grade
Copolymer with 66% fluorine content
Cure system is Bisphenol

APPLICATION

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

TEMPERATURE

Low temperature service limit -4°F (-20°C)
Upper temperature continuous service limit +400°F (+204°C)

PRODUCTS

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

PHYSICAL PROPERTIES

| ORIGINAL | STANDARD | TYPICAL VALUES |
|--|------------|----------------|
| Specific Gravity | ASTM D1817 | 2.51 |
| Durometer shore A (slab) | ASTM D2240 | 87 |
| Elongation % (Dumbbell) | ASTM D412 | 129.3 |
| Tensile strength Psi (Mpa) (Dumbbell) | ASTM D412 | 1618 (11.15) |
| Compression set % 22h @ 347°F (175°C) (slab) | ASTM D395B | 9.42 |
| Low temperature TR-10°F (°C)* | ASTM D1329 | -17 |

*Nominal value based on a typical 75 shore vulcanizate

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

| | |
|-----------------------------------|-----------|
| Durometer change points shore A | +2.6 |
| Elongation change % | -20 |
| Tensile strength change Psi (Mpa) | +392 (27) |
| Weight loss grams | 0.17 |

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

| | |
|-----------------------------------|------------|
| Volume change % | +2.34 |
| Durometer change points shore A | +1.7 |
| Elongation change % | +1.15 |
| Tensile strength change Psi (Mpa) | -638 (4.4) |

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.