

**MATERIAL**

EPDM 75 Shore Black
ASTM D 2000 M1 CA 708 A25

DESCRIPTION

EPDM is a polymer of ethylene, propylene and a small amount of diene
Cure system is sulphur

APPLICATION

EPDM's have a good resistance to ozone, ageing and weathering. They are suitable for HFC & HFD flame retardant hydraulic acids and brake fluids and have an exceptional resistance to hot water, steam and acids.

TEMPERATURE

Low temperature service limit -40°F (-40°C)
Upper temperature continuous service limit +212°F (+100°C)

PRODUCTS

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

PHYSICAL PROPERTIES

| ORIGINAL | STANDARD | TYPICAL VALUES |
|---|------------|----------------|
| Specific Gravity | ASTM D1817 | 1.22 |
| Durometer shore A (slab) | ASTM D2240 | 75 |
| Elongation % (Dumbbell) | ASTM D412 | 365 |
| Tensile strength Psi (Mpa) (Dumbbell) | ASTM D412 | 1508 (10.4) |
| Compression set % 22h @ 167°F (75°C) (slab) | ASTM D395B | 27 |

HEAT AGEING 70h @ 257°F (125°C) ASTM D573

| | |
|-----------------------------------|-------------|
| Durometer change points shore A | +12 |
| Elongation change % | -70 |
| Tensile strength change Psi (Mpa) | -420 (+2.9) |
| Weight loss grams | 4.5 |

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

| | |
|-----------------------------------|-------------|
| Volume change % | +178 |
| Durometer change points shore A | -56 |
| Elongation change % | -43 |
| Tensile strength change Psi (Mpa) | -826 (-5.7) |

Information

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