

MC248 FKM 45 Shore Brown

ASTM D 2000 M2HK 45 B37

Material Datasheet • Issue 2 • Apr 2017

Material

FKM 45 Shore Brown
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Description

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

Application

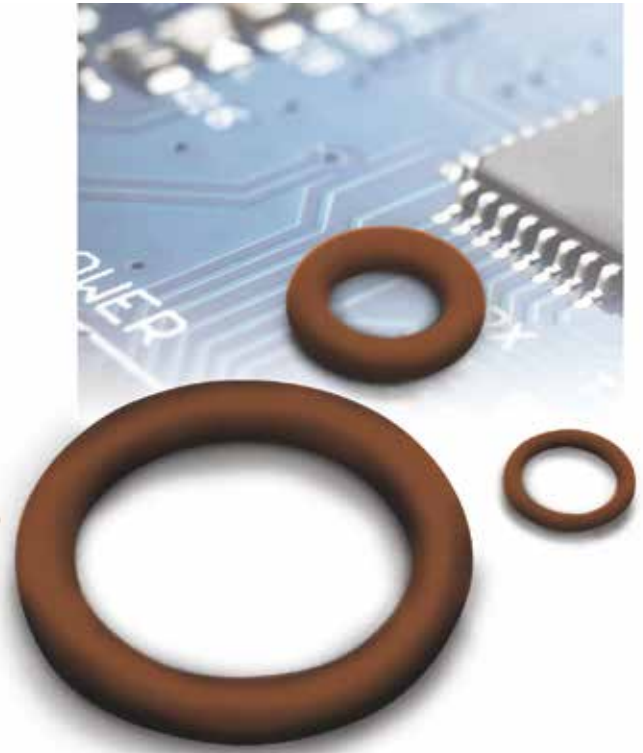
This material has excellent resistance to oils, fuels, lubricants, most mineral acids, aliphatic and aromatic hydrocarbons.

Temperature

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

Products

- Mouldings (custom/O Rings)



Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	1.85
Durometer shore A (slab)	ASTM D2240	45
Elongation % (Dumbbell)	ASTM D412	350
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1015 (7)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	25

Heat Ageing 70h @ 482°F (250°C) ASTM D573

Durometer change points shore A	+7
Elongation change %	-21
Tensile strength change Psi (MPa)	-50.76 (0.35)

Fluid Immersion Oil No3 70h @ 302°F (150°C) ASTM D471

Volume change %	+5
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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.

