MC170 **FKM 75 Shore Brown**
ASTM D 2000 M2HK 71 B37

Material Datasheet • Issue 2 • Apr 2017

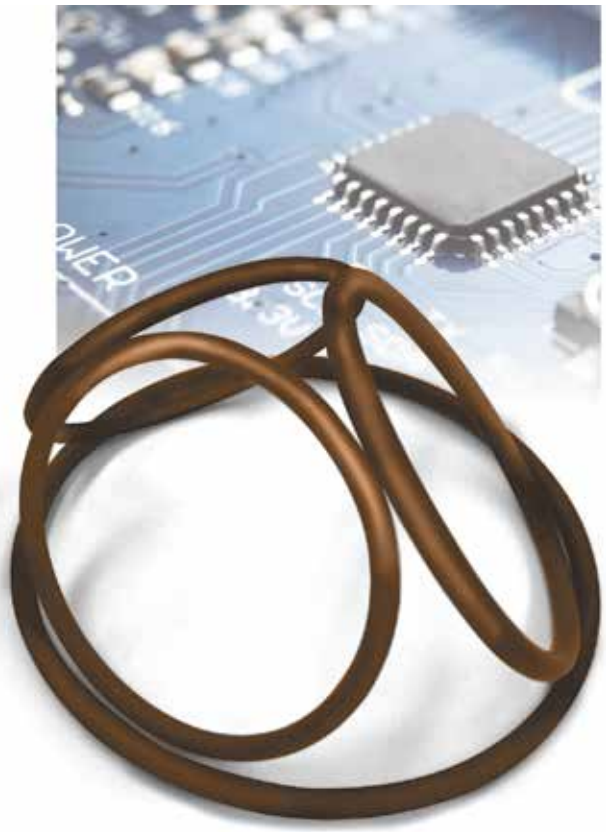
Material
FKM 75 Shore Brown
ASTM D 2000 M2HK 71 B37

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)
- Mouldings (custom/O Rings)
- VulcOrings



Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	2.26
Durometer shore A (slab)	ASTM D2240	79
Elongation % (Dumbbell)	ASTM D412	273
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1953 (13.46)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	5.38
Low temperature TR-10 °F (°C)*	ASTM D1329	1.4 (-17)

* Nominal value based on a typical 75 shore vulcanizate

Heat Ageing 70h @ 482°F (250°C) ASTM D573	
Durometer change points shore A	+3.17
Elongation change %	-34
Tensile strength change Psi (MPa)	-133 (0.9)
Weight loss grams	0.03

Fluid Immersion Oil No3 70h @ 302°F (150°C) ASTM D471	
Volume change %	-1.85
Durometer change points shore A	-1.16
Elongation change %	-27
Tensile strength change Psi (MPa)	-252 (1.74)

NES PART OF INTEGRATED POLYMER SOLUTIONS

NES Sheffield is the Integrated Polymer Solutions European HQ
Northern Engineering (Sheffield) Limited, Haigh Moor Drive,
Brooklands Park, Sheffield, UK, S25 2JY

Tel: +44 (0) 1909 560 203
Fax: +44 (0) 1909 560 184
Email: info@nes-ips.com
Web: www.nes-ips.com