

MC311 Epdm 65 Shore 'FDA' Metal Detectable /X-ray Detectable ASTM D 2000 M2CA 710 A25

Material Datasheet • Issue 4 • Aug 2017

Material

Epdm 65 Shore 'FDA' Metal Detectable/X-ray Detectable
ASTM D 2000 M2CA 710 A25

Description

- Epdm is a polymer of ethylene, propylene and a small amount of diene
- Cure system is peroxide
- Is FDA Compliant to CFR 21 177-2600 & European regulations EC1935/2004
- Is 3-A 18-03 Compliant Class 3 (except for milk fat test)
- Blue in colour

Application

Epdm's have a good resistance to ozone, ageing and weathering. They are suitable for HFC & HFD flame retardant hydraulic oils and brake fluids and have an exceptional resistance to hot water, steam and acids. This compound can be detected by metal detectors and X-ray detectors.

Temperature

- Low temperature service limit -40°F (-40°C)
- Upper temperature continuous service limit +284°F (+140°C)

Products

- Extrusions (cords/profiles)
- Mouldings (custom/O rings)
- VulcOrings & Vulcanised Profiles

Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	1.61
Durometer shore A (slab)	ASTM D2240	67
Elongation % (Dumbbell)	ASTM D412	285
Tensile strength Psi (MPa) (Dumbbell)	ASTM D412	1073 (7.4)
Compression set % 24h @ 212°F (100°C) (slab)	ASTM D395B	15.1



Heat Ageing 70h @ 212°F (100°C) ASTM D573

Durometer change points shore A	+2
Elongation change %	-14
Tensile strength change Psi (MPa)	-102 (-0.7)
Weight loss %	0.2

Fluid Immersion Oil No 3 70h@ 212°F (100°C) ASTM D471

Volume change %	+136
Durometer change points shore A	-39
Elongation change %	-155
Tensile strength change Psi (Mpa)	-551 (-3.8)

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.

