

MC281 Epdm 65 Shore Black "FDA"

ASTM D 2000 M2CA 12 A25 B35

Material Datasheet • Issue 2 • May 2018

Material

Epdm 65 Shore Black "FDA"
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Description

- Epdm is a polymer of ethylene, propylene and a small amount of diene
- Is FDA Compliant to CFR 21 177-2600
- Cure system is peroxide

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.

Temperature

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

Products

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



Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	1.11
Durometer shore A (slab)	ASTM D2240	66
Elongation % (Dumbbell)	ASTM D412	328
Tensile strength Psi (MPa) (Dumbbell)	ASTM D412	1638 (11.3)
Compression set % 22h @ 212°F (100°C) (slab)	ASTM D395B	11.13

Heat Ageing 70h @ 257°F (125°C) ASTM D573

Durometer change points shore A	No change
Elongation change %	-5.9
Tensile strength change Psi (MPa)	-25 (0.171.5)
Weight loss grams	0.02

Fluid Immersion Oil No 3 70h @ 320°F (150°C) ASTM D471

Volume change %	n/a
Durometer change points shore A	-27
Elongation change %	-23
Tensile strength change Psi (MPa)	-1242 (-8.57)

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.

