

MC312 Nitrile 65 Shore FDA Metal Detectable /X-ray Detectable

ASTM D 2000 M2BG 610 B14 E034

Material Datasheet • Issue 4 • Aug 2017

Material

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Description

- NBR Acrylonitrile-butadiene-rubber
- ACN content is 33%
- Cure system is Sulphur
- Blue in colour
- FDA Compliant to CFR 21 177-2600 & European regulations EC1935/2004.

Application

This material has an excellent resistance to aliphatic, hydrocarbons (eg propane, butane and petroleum), mineral oils, greases, vegetable & animal oils, greases, heating oil and diesel fuel. This compound can be detected by metal detectors and X-ray detectors.

Temperature

- Low temperature service limit -22°F (-30°C)
- Upper temperature continuous service limit +284°F (+120°C)

Products

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



Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	1.48
Durometer shore A (slab)	ASTM D2240	61
Elongation % (Dumbbell)	ASTM D412	664
Tensile strength Psi (MPa) (Dumbbell)	ASTM D412	1218 (8.4)
Compression set % 22h @ 158°F (70°C) (slab)	ASTM D395B	29.2

Heat Ageing 70h @ 212°F (100°C) ASTM D573	
Durometer change points shore A	+5
Elongation change %	-179
Tensile strength change Psi (Mpa)	-290 (-2.0)
Weight loss %	1.6

Fluid Immersion Oil No 3 70h@ 212°F (100°C) ASTM D471	
Volume change %	+11.9
Durometer change points shore A	-11
Elongation change %	-130
Tensile strength change Psi (Mpa)	-232 (-1.6)

Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experiments. 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.

