

# MC327 FKM 'A' 70 Shore 'FDA Blue Metal Detectable & 3A/X-ray Detectable' ASTM D 2000 M2HK 712 B37

Material Datasheet • Issue 3 • Aug 2017

## Material

FKM 'A' 70 Shore  
'FDA Blue Metal Detectable & 3A/X-ray Detectable'  
ASTM D 2000 M2HK 712 B37

## Description

- Low compression set FKM 'A' O Ring grade
- Copolymer with 66% fluorine content
- FDA Compliant to CFR 21 177-26 00
- Is 3-A 18-03 Compliant to Class 1
- Cure system is Bisphenol
- Blue in colour

## Application

This material has excellent resistance to oils, fuels, lubricants, most mineral acids, aliphatic and aromatic hydrocarbons. This compound can be detected by metal detectors and X-ray detectors.

## Temperature

- Low temperature service limit 5°F (-15°C)
- Upper temperature continuous service limit +400°F (+204°C)

## Products

- Extrusions
- Mouldings (custom/O rings)
- VulcOrings

## Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	2.25
Durometer shore A (slab)	ASTM D2240	66
Elongation % (Dumbbell)	ASTM D412	237
Tensile strength Psi (MPa) (Dumbbell)	ASTM D412	1740 (12.0)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	7.7
Low temperature TR-10 °F (°C) *	ASTM D1329	10.4(-12)

\* Nominal value based on a typical 70 shore vulcanizate

## 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.



Heat Ageing 70h @ 482°F (250°C) ASTM D573	
Durometer change points shore A	+5
Elongation change %	-55
Tensile strength change Psi (Mpa)	+29 (+0.2)
Weight loss %	2.5

Fluid Immersion ASTM 3 70h@ 302°F (150°C) ASTM D471	
Volume change %	+2.5
Durometer change points shore A	0
Elongation change %	+23
Tensile strength change Psi (Mpa)	-189 (-1.3)



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