

<b>MATERIAL</b>	EPDM 65 Shore Metal/X-Ray Detectable FDA Blue ASTM D 2000 M2CA 710 A25
<b>DESCRIPTION</b>	EPDM is a polymer of ethylene, propylene and a small amount of diene Cure system is peroxide FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004 3-A 18-03 compliant Class 3 (except for milk fat test) Meets EN10/2011
<b>APPLICATION</b>	EPDM's have good resistance to ozone, ageing and weathering. They are suitable for HFC & HFD flame retardant hydraulic oils and brake fluids and have exceptional resistance to hot water, steam and acids. This compound can be detected by metal detectors and X-Ray detectors.
<b>TEMPERATURE</b>	Low temperature service limit -40°F (-40°C) Upper temperature continuous service limit +248°F (+120°C)
<b>PRODUCTS</b>	Extrusions (cords/profiles/tubes) Hot Vulcanised O rings & Profiles Moulding (custom/O rings)

### PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.60
Durometer shore A (slab)	ASTM D2240	67
Elongation % (Dumbbell)	ISO37, type 2	349
Tensile strength Psi (Mpa) (Dumbbell)	ISO37, type 2	1261 (8.7)
Compression set % 22h @ 158°F (70°C) (slab)	ISO815-1B	13
<b>HEAT AGEING 70h @ 212°F (100°C) ASTM D573</b>		
Durometer change points shore A		+2
Elongation change %		-13
Tensile strength change Psi (Mpa)		-102 (-0.7)
Weight loss %		0.2
<b>FLUID IMMERSION Oil No 3 70h @ 212°F (100°C) ASTM D471</b>		
Volume change %		+134
Durometer change points shore A		-38
Elongation change %		-16
Tensile strength change Psi (Mpa)		-551 (-3.8)

Sample tests were carried out on a Mettler Toledo Advancheck 300 machine, tests were carried out on a standard head 350mm wide x 175mm high, frequency at both 100 Khz and 300Khz, samples down to 2mm were detected.

#### Information

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