



MATERIAL	EPDM 75 Shore FDA Black ASTM D 2000 M2 CA 710 A25
DESCRIPTION	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 III (except for milk fat test)
APPLICATION	EPDMs have a good resistance to ozone, ageing and weathering. They are suitable for HFC & HFD flame retardant hydraulic acids 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	Encapsulated O rings Extrusions (cords/profiles/tubes) Hot Vulcanised O rings & Profiles Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.12
Durometer shore A (plug)	ASTM D2240	73
Elongation % (Dumbbell)	ASTM D412	230
Tensile strength PSI (MPa) (Dumbbell)	ASTM D412	1712 (11.8)
Compression set % 22h @ 212°F (100°C) (slab)	ASTM D395B	9.8
HEAT AGEING 70h @ 257°F (125°C) ASTM D573		
Durometer change points shore A		+3
Elongation change %		-2.2
Tensile strength change PSI (MPa)		+29 (+0.2)
Weight loss grams		0.07
FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471		
Volume change %		+114
Durometer change points shore A		-36
Elongation change %		-49
Tensile strength change PSI (MPa)		-899 (-6.2)

Information

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