Material Data Sheet

MC235 EPDM 80 Shore Black

Feb-2019 Revision: 4

MATERIAL

EPDM 80 Shore Black
ASTM D 2000 M6CA 710 A25 B35 C32

DESCRIPTION

EPDM is a polymer of ethylene, propylene and a small amout of diene
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 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 Seals
Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.10
Durometer shore A (slab)	ASTM D2240	79
Elongation % (Dumbbell)	ASTM D412	273
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2320 (16)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	7.8
HEAT AGEING 70h @ 258°F (125°C) ASTM D573		
Durometer change points shore A		-0.5
Elongation change %		-6.8
Tensile strength change Psi (Mpa)		+94 (+0.65)
Weight loss grams		0.01
FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471		
Volume change %		+110
Durometer change points shore A		-30
Elongation change %		-47
Tensile strength change Psi (Mpa)		-136 (-9.4)

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