



MC238 NBR 75 Shore Black

MATERIAL	NBR 75 Shore Black ASTM D 2000 M2BG 718 A14B14E034
DESCRIPTION	NBR (Acrylonitrile-Butadiene-Rubber) ACN content is 34% Cure system is sulphur
APPLICATION	This material has excellent resistance to aliphatic hydrocarbons (e.g. propane, butane and petroleum), mineral oils/greases, vegetable/animal oils/greases, heating oil and diesel fuel.
TEMPERATURE	Low temperature service limit -22°F (-30°C) Upper temperature continuous service limit +248°F (+120°C)
PRODUCTS	Extrusions (cords/profiles/tubes) Hot Vulcanised O rings & Profiles Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.27
Durometer shore A (slab)	ASTM D2240	79
Elongation % (Dumbbell)	ASTM D412	310
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2757 (19)
Compression set % 22h @ 212°F (100°C) (slab)	ASTM D395B	18
HEAT AGEING 70h @ 212°F (100°C) ASTM D573		
Durometer change points shore A		+4
Elongation change %		-23
Tensile strength change Psi (Mpa)		+145 (1)
Weight loss grams		0.06
HEAT AGEING 70h @ 257°F (125°C) ASTM D573		
Durometer change points shore A		+5.5
Elongation change %		-28.43
Tensile strength change Psi (Mpa)		+50.7 (0.35)
Weight loss grams		0.07
FLUID IMMERSION Oil No 3 70h @ 212°F (100°C) ASTM D471		
Volume change %		+2.37
Durometer change points shore A		+1.5
Elongation change %		+1.3
Tensile strength change Psi (Mpa)		+238 (1.64)