

MATERIAL	Nitrile 65 Shore Metal/X-Ray Detectable FDA Blue ASTM D 2000 M2BG 610 B14 E034
DESCRIPTION	NBR Acrylonitrile-Butadiene-Rubber ACN content is 33% Cure system is sulphur FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004
APPLICATION	This material has an excellent resistance aliphatic, hydrocarbons (e.g. propane, butane and petroleum), mineral oils/greases, vegetable/animal oils/greases, heating oil and diesel fuel. This compound can be detected by metal detectors and X-Ray detectors.
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	1.48
Durometer shore A (slab)	ASTM D2240	61
Elongation % (Dumbbell)	ASTM D412	664
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1218 (8.4)
Compression set % 22h @ 158°F (70°C) (slab)	ASTM D395B	39.3
HEAT AGEING 70h @ 212°F (100°C) ASTM D573		
Durometer change points shore A		+5
Elongation change %		-179
Tensile strength change Psi (Mpa)		-290 (-2.0)
Weight loss %		1.6
FLUID IMMERSION Oil No 3 70h @ 212°F (100°C) ASTM D471		
Volume change %		+11.9
Durometer change points shore A		-11
Elongation change %		-130
Tensile strength change Psi (Mpa)		-232 (-1.6)

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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