



Nitrile (2751) Technical Datasheet

Description

Nitrile (2751) is a high performance Nitrile (NBR) sheet manufactured in accordance with BS 2751. The material offers improved mechanical properties, thermal stability, and chemical resistance compared to standard grades.

Application

Nitrile (2751) has excellent resistance to oils, solvents, greases and lubricants. It is not suitable for contact with aromatic hydrocarbons, ketones and esters, and can be attacked by ozone. The material is mainly used for the manufacture of seals, including flange gaskets, in industries such as aerospace, defence, food processing, and oil and gas.

Typical Physical Properties

Polymer	NBR	
Density (SG)	ASTM D2240	1.25g/cm ³
Hardness	ASTM D2240	70° +/-5 Shore A
Ageing (Elongation)	BS903 A19 B	-35%
Ageing (Tensile)	BS903 A19 B	-10%
Ageing (Hardness)	BS903 A19 B	+10°
Tensile Strength	ASTM D412	12.5 MPa
Compression Set	ASTM D395 B	20% (22hr @ 70°C)
Elongation at Break	ASTM 412	250%
Temperature Range	-20 to 110°C	
Pressure	24 Bar Maximum	

Note:

The above pressure rating is dependent on the operating temperature, and does not apply at the maximum temperature



Availability

Thickness	0.5mm to 25mm
Roll Width	1400mm
Roll Length	10m (0.5mm to 6mm thick) 5m (8mm to 25mm thick)
Specification	BS2751
Hardness	Other shore hardnesses available
Colour	Black

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