

Data / Specification Sheet • MR31 CORK JOINTING

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Description

MR31 is a cost effective mechanical grade, synthetic rubber/cork gasket material offering good oil resistance. The highly compressible nature of MR31 Cork results in its outstanding ability to create an effective seal at low gasket seating stresses due to low to medium bolting loads. Characteristics include good flexibility and resiliency, and is generally resistant to most lubrication fluids enabling this material to be used in many general engineering, industrial & automotive applications. Not suitable for unleaded petrol or low sulphur diesel fuel.

MR31 is RoHS compliant for hazardous substances and therefore contains no heavy metals or Polycyclic Aromatic Hydrocarbons.

Features

- Broad Temperature Range
- Excellent Gasket Conformability under Low to Moderate Compression
- Maximum recommended operating temperature in liquids of +110°C
- Resists most common lubrication fluids

General Properties

Temperature Range	:	-30°C to 110°C	
Elastomer Binder	:	SBR	
Stress Range	:	1.5 to 6 MPa	
Compressive Strength	:	>70 MPa	
Density	:	650 kg/m ³	ASTM D-297
Hardness	:	60 Shore A ±5	ASTM D-2240
Tensile Strength	:	1.5 MPa	ASTM D-412 Die C
Elongation	:	20%	ASTM D-412 Die C
Compression Set, 22 hours @ 70°C	:	29.7%	ASTM D-395 Method A

Ageing Data - Volume Change After Immersion in: -

	22 Hours	70 Hours	
ASTM Oil No: 1 @ 100°C	--	+0.6%	ASTM F-146
IRM 903 Oil @ 100°C	--	+14.3%	ASTM F-146
ASTM Fuel A @ 23°C	+6.7%	--	ASTM F-146

Ageing Data - Volume Change After Immersion in: -

	24 Hours	72 Hours	168 Hours	
Gear Oil, 75W90 @ 100°C	0	+1%	+2.1%	ASTM F-146
Engine Oil, 15W40 @ 100°C	+2%	+2.5%	+6%	ASTM F-146

Heat Ageing Data in Air @ 100°C

	24 Hours	72 Hours	168 Hours	
Hardness Change	+2	+7	+9	ASTM D-2240
Change in Flexibility	+1	+3	+3	ASTM F-147

Availability

Sheets @ 1270mm x 1040mm in: - 1.5mm; 2.0mm; 2.4mm; 3.0mm; 4.0mm; 4.8mm, 6.4mm Rolls @ 1,340mm wide in: - 4.8mm

Tolerances

Sheet Size :	± 20mm on width & length		
Thickness :	<1.6mm ± 0.18mm	1.6mm to <3.0mm ± 0.25mm	
	3.0mm to <9.0mm ± 0.38mm	9.0mm to 12mm ± 0.5mm	

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