

M SEALS EPKTW-B85

KTW-W270 Drinking water compliant EPDM Rubber



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



KTW-W270

Description

M Seals material EPKTW-B85 is a black Peroxide cured Ethylene-Propylene-Rubber (EPDM) which has been developed and approved for use in drinking water in-line with German KTW-W270 standards.

All EPDM rubbers have very poor resistance to fats and oils; therefore, we do not recommend its use in applications utilising these types of fluid/s, this is due to the excessive volume swelling and softening of the material that will occur, leading to product failure. Lubricating EPDM rubber in hydrocarbon-based oils and greases should always be avoided.

Physical Properties

Property	Test method	Unit	Typical value
Colour			White
Density	ISO 1183-1	g/cm ³	1.16
Hardness @ 23°C	ISO 7619-1	Shore A	85 (+/-5)
Tensile Strength	DIN 53504	N/mm ²	20.9
Elongation at break	DIN 53504	%	110
Tear resistance	ISO 34-1 A	N/mm	3.6
Compression set (24 Hours @ 70°C, 25%)	ISO 815-1	%	6.9
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	5.6
Minimum service temperature		°C	-45
Maximum service temperature		°C	+120

Main Characteristics

- KTW-W270 Compliant
- Good resistance to acids, alcohols, bases and brake fluid
- Useful temperature range

Typical Products

- Triclover seals
- RJT seals
- Static Seals & O-Rings

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.