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

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