

MATERIAL DATASHEET

05-70-0122

Standard EPDM - ethylene propylene diene rubber

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Description

Ethylene propylene diene rubber EPDM is produced by copolymerizing ethylene, propylene and a diene. The diene component contains double bonds in the side chain that allow crosslinking with sulphur. In many cases, an organic peroxide crosslinker is used for EPDM. The absence of the double bond in the main chain results in good oxygen, ozone and temperature resistance. Sulphur crosslinking in EPDM results in a poorer compression set DVR. Special lubricants (e.g. silicone grease) must be used to lubricate the elastomer parts used, not mineral oils or greases.

Properties

- Very good resistance to ozone, ageing and weathering
- Above-average resistance to chemicals
- Hot water resistant up to +130 °C

Typical applications

- Household appliances
- Sanitary applications
- Automotive engineering

Further information

Conformities

- REACH (1907/2006)
- RoHS (2011/65/EU)
- ADI-free

Reference to the author/disclaimer

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Technical data			
Color			black
Hardness	DIN 53519	Shore A	70 ± 5
Specific density	DIN 53479	g/cm ³	1.13
Tensile strength	DIN 53504	MPa	7 – 20
Elongation at break	DIN 53504	%	150 – 800
Compression set during 22 h at +100 °C	DIN 53517 25 % deformation	%	10 – 40
Temperature		°C	-40 to +130