Precision components
made of flexible and rigid materials

Gaskets Materials

Flexseal® EPDM FS 30182

Description:

Flexseal® EPDM FS 30182 is a softly adjusted elastomer material based on ethylene propylene diene rubber. The material is characterized by high elasticity, very good weather resistance and excellent aging and ozone resistance. Flexseal® EPDM FS 30182 is suitable for applications in rail vehicle construction and complies with the requirements of EN 45545-2 according to Hazard Level HL2 (R22/R23).

Applications:

Flexseal® EPDM FS 30182 is suitable for seals in rail vehicle construction, soft sealing systems with high deformation requirements, cable and wire protection, vibration decoupling and seals in the interior of vehicles.

Color:

black

Delivery forms:

Flexseal® EPDM FS 30182 can be supplied as a blank or die-cut part. Other forms of delivery on request.

Storage conditions:

Flexseal® EPDM FS 30182 should be stored at room temperature in dry rooms. Sunlight should be avoided, as this can influence the material properties in the long term.

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info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Seat of the company: Ahlhorn
Managing Director: Dr. Michael Müller | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Certified according to ISO 9001:2015 and ISO 14001:2015
UL recognised repacker E341377

Dr.D. Müller AHLHORN

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Feature	Test Method	Unit	Value
Material basis	-	-	EPDM
Density	ISO 2781	g/cm³	1,5
Hardness	ISO 868	Shore A	40 ± 5
Tensile strength	ISO 37	MPa	≥ 5
Elongation at break	ISO 37	%	≥ 600
Tear Propagation Resistance	ISO 34	kN/m	18
Operating temperature	ISO 188 / ISO 812	°C	−30 to +100
96 h / 40 °C / 200 pphm / 20 % elongation	ISO 1431-1	-	No cracks
Test conditions: 168 h at 85 °C: Hardness Elongation Tensile strength	 ISO 188 ISO 188 ISO 188	 Shore A % %	 +10 ± 20 ± 10
Resistance to Ozone & Weathering	-	-	Very good
Resistance Oxidation	-	-	Very good
Water resistance	-	-	Very good
Resistance to acids and alkalis	-	-	Restricted
Resistance of mineral oil products	-	-	Low
Resistance Lubricating Oils	-	-	Low

Trademark information: Flexseal® is a registered trademark of Dr Dietrich Müller GmbH, Germany.

Please note:

The information in this technical data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during application, it does not exempt the processor and user from carrying out their own tests and trials. A legally binding guarantee of certain properties or suitability for a specific application cannot be derived from our information. Depending on the individual case, we recommend consulting us. The recipient of our products is responsible for observing any industrial property rights and existing laws.

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