

Material

70 EPDM 281

black

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Physical properties

	nominal range	typical values	
Density DIN EN ISO 1183-1	1.09 ±0.02	1.10	g/cm ³
Hardness DIN ISO 7619-1, Shore A	75 ±5	75	Shore
Rebound resilience DIN 53512	> 35	46	%
Modulus 100 %, DIN 53504, S2	> 4	6	MPa
Tensile strength DIN 53504, S2	> 12	16.7	MPa
Elongation at break DIN 53504, S2	> 140	180	%
Compression set DIN ISO 815, Slab B, 24 h, 100 °C, 25 %	< 20	12	%
Compression set DIN ISO 815, Slab B, 24 h, 150 °C, 25 %	< 30	13	%
Compression set DIN ISO 815, Slab B, 70 h, 150 °C, 25 %	< 35	27	%
Tear strength DIN 53515, Winkelprobe	> 6	11.1	KN/m
Tear strength ASTM D624, B	---	15.8	KN/m
Low Temperature ISO 11357-2, DSC	---	-52	°C
Low temperature test ASTM D1329, TR10	---	-46	°C
Temperature range	static: -50°C to 150°C dynamic: -40°C to 150°C		

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Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
ADI Free			see certificate	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

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Tested after ASTM D 2000: M 3 DA 714 A26 B36 G11

		nominal range	typical values
Hardness	Shore	70 ±5	72
Tensile strength	MPa	min. 14	16
Elongation at break	%	min. 200	230
A26 Change after aging in Air 70h/150°C			
Hardness	Shore	10	4
Tensile strength	%	-20	-15
Elongation at break	%	-20	-15
B36 Compression set (plied) 22h/150°C			
	%	25	18
G11 Tear Resistance Die B 23°C			
	MPa	17	26

Not mineral oil resistant!

**Change after aging in AdBlue (urea solution 35% in water)
85°C / 1000 h**

Hardness: -1 Shore A
Volume change: + 9,7 %
Weight change: + 18,5 %
Modulus 100 %: + 13,0 %
Tensile strength: - 8 %
Elongation at break: - 13 %

Permeation Measurement at membrane:

		Ammoniac (microgr./ cm² x day)
1 - layered	60 °C	22
2 - layered	80 °C	40
1 - layered	80 °C	195

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1 - layered 100 °C	280

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Application in water vapor to max. 150 °C short time 170 °C

Ozone resistance by 40 °C: to 200 pphm

Elutable chlorides: ca. 5 ppm (24 h reflux boiled)

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisons do not plan for something else.

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