

# Material

## 85 EPDM 292

black

cross linking: peroxidic



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Physical properties	nominal range	typical values	
<b>Density</b> DIN EN ISO 1183-1, 23 °C	1.14 ±0.02	1.14	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1, Shore A, 23 °C	85 ±5	86	Shore
<b>Modulus</b> 100 %, DIN 53504, S2, 23 °C	---	13.5	MPa
<b>Tensile strength</b> DIN 53504, S2, 23 °C	> 14	16.2	MPa
<b>Elongation at Break</b> DIN 53504, S2, 23 °C	> 110	128	%
<b>Compression set</b> DIN ISO 815, B, 24 h, 100 °C, 25 %	< 20	10	%
<b>Compression set</b> DIN ISO 815, I, 24 h, 150 °C, 25 %	< 30	13	%
<b>Low Temperature</b> ISO 11357-2, DSC	---	-50	°C
<b>Temperature range</b>	static: -50°C to 150°C dynamic: -40°C to 150°C		

### Declarations of conformity

	Country	Part	Remark	Expires	unlimited
(EG) 1935/2004	EU		food		<input checked="" type="checkbox"/>
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)		<input checked="" type="checkbox"/>
3-A Sanitary	USA	Seals	Class II	12 / 2022	<input type="checkbox"/>
ADI Free			see certificate		<input checked="" type="checkbox"/>
BPA/Phthalate free			BPA/Phthalate free		<input checked="" type="checkbox"/>
CMR Category 1A/1B free			see certificate		<input checked="" type="checkbox"/>
FDA	USA	Seals	§ 177.2600		<input checked="" type="checkbox"/>
Nano-free			see certificate		<input checked="" type="checkbox"/>
NSF 51	USA	Seals	food		<input checked="" type="checkbox"/>
RoHS conform			including EU 2011/65 and		<input checked="" type="checkbox"/>

### Freudenberg

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	<b>Country</b>	<b>Part</b>	<b>Remark</b>	<b>Expires</b>	<b>unlimited</b>
USP Chapter 87 (In vitro)	USA	Seals	EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>
USP Class VI Ch. 88 - 121 °C	USA	Seals	K 44812/03		<input checked="" type="checkbox"/>

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**No ASTM D2000 properties available**

**Ozone resistance: to 1000 pphm (40 °C)**

**Application in water and water vapor to max. 180 °C, for short time max. 210 °C**

**Specific characteristic and limitations for the use in food contact are set out in the corresponding declaration of conformities.**

**The material is very low in PAH content and fulfils the strict PAH peak values according to category 2 (<10 ppm) of the GS-sign for consumer goods (reference: AfPS GS 2014:01: testing and evaluation of polyaromatic hydrocarbons (PAH) for the GS-sign award).**

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 manufacturing 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 provisions do not plan for something else.

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