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## **Material Data Sheet E132-W85**

### **EPDM-FDA E132 – white (sulphur cross linked)**

#### **General**

E132-W85 is a white Ethylene Propylene Rubber, commonly referred to as EPDM. This material is often used in hot water steam applications as well as in fire resistant fluids where synthetic oils are used. EPDM materials are also used in bases, acids and alcohols. EPDM is also used for brake fluids, but we recommend observing local safety-regulations before installing an EPDM seal in breaking systems. EPDM is not resistant to mineral- vegetable- and animal oils.

EPDM-FDA E132 – white is approved for the use of applications in contact with foodstuff.

#### **Physical properties**

Density:	DIN 53479	g/cm <sup>3</sup>	1,39	±0,03
Hardness at 23°C:	DIN 53505	Shore A	85	±5
100% Modulus:	DIN 53504	N/mm <sup>2</sup>	3,0	*
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	5,8	*
Elongation at break:	DIN 53504	%	454,5	*
Tear resistance:	DIN 53515	kN/m	28,8	*
Compression set, 24h, 70°C, 25%:	DIN 53517	%	19,8	*
Compression set, 24h, 100°C, 25%:	DIN 53517	%	35,1	*

\* mentioned values are subject to a tolerance of +/- 25%

**Temperature range:** -50°C to 100°C

#### **Chemical resistance**

Resistant to: Water up to 90°C, HFC, HFD-R Fluids, Ozone, Oxygen, Alcohols, Ketones, Esters, Air up to 100°C

Not Resistant to: Steam up to 180°C, HFA, HFB, HFD-S Fluids, Mineral Oils, Vegetable Oils, Biodegradable Oils, Fuels, Air up to 150 °C

#### **Main application**

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements); cleaning and washing technology; applications in the food industry.

#### **Available certificates**

- Conform to (EC) No 1935/2004 and (EC) No 10/2011
- Conform to positive list of FDA 21 CFR 177.1680