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Material Data Sheet E131-B85

EPDM E131 – black (peroxide cross linked)

General

E131-B85 is a black 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.

Physical properties

Density:	DIN 53479	g/cm ³	1,21	±0,03
Hardness at 23°C:	DIN 53505	Shore A	85	±5
100% Modulus:	DIN 53504	N/mm ²	9,3	*
Tensile strength:	DIN 53504	N/mm ²	12,7	*
Elongation at break:	DIN 53504	%	120,3	*
Tear resistance:	DIN 53515	kN/m	34,4	*
Rebound resilience:	DIN 53512	%	39,0	*
Compression set, 24h, 70°C, 25%:	DIN 53517	%	10,8	*
Compression set, 24h, 100°C, 25%:	DIN 53517	%	9,2	*

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

Temperature range: -50°C to 130°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.