

AF1403 Data Sheet E133-B85 EPDM-KTW-W270 E133 – Black (Peroxide Cross Linked)

General

E133-B85 is a black Ehtylene 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 to observe 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/cm³	1,182
Hardness at 20°	DIN 53505	Shore A	85
Tensile strength	DIN 53504	N/mm²	>15
Elongation at break	DIN 53504	%	>120
Compression set: 22h/70°	DIN 53517A	%	18,8
Compression set: 22h/100°	DIN 53485	%	13,3
Min. service temperature		°C	-45
Max. service temperature		°C	120
Short time max. service temp. in air		°C	150

Chemical resistance

Water up to 90°	R	Biodegradeable oils	U
Steam up to 180°	U	Fuels	U
HFA, HFB, HFD-S fluids	U	Ozone, oxygen	R
HFC, HFD-R fluids	R	Alcohols	R
Mineral oils	U	Ketones, Esters	R
Vegetable oils	U	Air up to 100°	R
Silicone oils	S	Air up to 150°	U

Key to chemical resistance: R = Resistant S = Suitable U = Unsuitable

Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energisers (preload elements); cleaning and washing technology; applications where KTW and W270 requirements are needed.

Analysis and evaluation

The mentioned properties are only valid for test pieces of the corresponding ISO, DIN and ASTM standards. They cannot be directly related to seals, gaskets and other sealing products and should be used only as a general guide.

Issued July 2013 AFT Fluorotec Technical Department.

All information is based on typical test results performed under specific conditions and limited sample size. This does not represent a legally binding guarantee of certain properties or the suitability for specific applications.

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