

EPDM 70-compound 559291 black - Technical Data Sheet

1. Introduction

EPDM 70-compound 559291 is an EPDM Terpolymer Peroxide cured. It is a high performance EPDM compound. Conform to FDA 177.2600, 3A Sanitary Standards class I and USP class VI.

2. Product Description

Chemical Composition : Ethylene / Propylene / Diene Terpolymer Mouldings
peroxide cured

Physical form : Mouldings / O-rings

Colour : Black

Odour : None

Storage stability* : 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48, method M	75 IHRD
Rebound resilience	DIN 53512	46 %
Modulus 100 %	DIN 53504, S2	9.8 N/mm ²
Tensile strength at break	DIN 53504, S2, 23°C	16,2 N/mm ²
Elongation at break	DIN 53504, S2, 23°C	165%
Specific weight	ISO 2781, 23°C	1.09 g/cm ³
Compression-set	ISO 815, B, 24 H. 100°C, 25%	10%
Compression-set	ISO 815, B, 24 H. 150°C, 25%	15%
Compression-set	ISO 815, B, 70 H. 150°C, 25%	24%
Tear strength	DIN 53515, 23 °C	11.5 N/mm

4. Temperature Resistance

- -40° to +150°C
- Short term: 210°C

5. Chemical Resistance

Air	: excellent
Alcohol	: excellent
Alkali	: excellent
Fats	: unsatisfactory
Hydrocarbons	: unsatisfactory
Ethers	: excellent
Esters	: unsatisfactory
Acids	: fair
Oils	: unsatisfactory
Water	: excellent
Steam	: good
	up to 180°C
Ozone	: excellent

6. Advantages

- Steam resistant up to 150°C
- Excellent ozone and weathering resistance

7. Other Information

- BAM Oxygen Test: up to 60°C/ max. 15 bar, and from 60°C up to 90°C/max. 10 bar
- According to FDA 21 CFR 177.2600
- According DVGW W270, WRAS, NSF, AFNOR XP P41-250-1/2/3, KTW D1 & D2, ACS
- Sanitary Standard 3A, No. 18-03, Class II
- USP Class VI

