

EPDM 70-compound 559310 black - Technical Data Sheet

1. Introduction

EPDM 70-compound 559310 is an EPDM Terpolymer Peroxide cured. It is a high performance EPDM compound. This compound has several certificates for contact with potable water.

2. Product Description

Chemical Composition :	Ethylene / Propylene / Diene Terpolymer
Physical form :	O-Rings / Mouldings
Colour :	Black
Odour :	None
Storage stability * :	10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48	70° ± 5° IRHD
Tensile Strength at break	ISO 37	min 9 MPa
Elongation at break	ISO 37	min 175%
Specific Weight	ISO 2781	1,12
Compression Set	ISO 815 A	
25% compression - 22h/70°C		max. 8%
25% compression - 22h/125°C on slab 6mm		max. 20%
Heat Ageing 168h/125°C	ASTM D573	
Change in Tensile Strength	ISO 37	max. -20%
Change in Elongation	ISO 37	+10/-20%
Change in Hardness	ISO 48	±5°
Water Resistance 168h/100°C	ISO 1817	volume +8/-1%

4. Temperature Resistance

- -45° to +150°C
- TR10 (low temp. resistance): -35°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 140°C
Ozone	: excellent

6. Advantages

- Low compression-set
- Excellent steam resistance
- Excellent ozone and weathering resistance

7. Other information

- KTW D1/D2 conform for cold and warm water up to 90°C
- DVGW W270 D1/D2 conform
- BS 6920 conform for cold and warm water, WRAS registered

