

EPDM 70-compound 559313 black - Technical Data Sheet

1. Introduction

EPDM 70-compound 559313 is an EPDM Terpolymer Peroxide cured. It is a high performance EPDM compound in compliance with ASTM D 2000.



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	ASTM D2240-04	70 ± 5 Shore A
Specific Weight	ISO 2781	1,267 g/cm ³
Tensile Strength at break	ASTM D412-98a	13,76 MPa
Elongation at break	ASTM D412-98a	231%
Tear Resistance	ASTM D624-00, die C	24,69 KN/m
Modulus at 100%	ASTM D412-98a	5,21 MPa
Compression Set 22h/125°C	ASTM D395 Method B	8,2
Heat Ageing (in air), 70h/150°C	ASTM D573-04	
Hardness Change		0
Tensile Strength Change		-8%
Elongation Change		-15%
Weight Change		0
Ageing in water, 70h/100°C	ASTM D471-98	
Hardness Change		-1 pts
Tensile Strength Change		+2%
Elongation Change		+2%
Volume Change		+0,8%
Low Temperature Brittleness Point Test 3 min/-55°C	ASTM D2137-94 Method A	pass

4. Temperature Resistance

- -55° to +150°C
- TR10 (low temp. resistance): -45°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

- Very good compression-set
- Excellent steam resistance
- Excellent ozone and weathering resistance

7. Other Information

- Material is in compliance with FDA 177.2600
- Typical composition results in a long-lasting broad spectrum anti-microbiological surface activity, without leakage of substances
- See also our compound 55914 which is sulphur cured.

