

EPDM 70-compound 559425 - Technical Data Sheet

1. Introduction

EPDM 70-compound 559425 is an EPDM Terpolymer, conform to ASTM D2000, M4CA710, A25, C32, EA14, F17, Z1.

2. Product Description

Chemical Composition	: Peroxide cured, Terpolymer of Ethylene / Propylene and Diene
Physical form	: O-Rings / Mouldings
Colour	: Black
Storage stability *	: ± 7 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	70° ± 5° IRHD
Tensile Strength at break	ISO 37	11,8 MPa
Elongation at break	ISO 37	270%
Compression Set	ISO 815	
70h/100°C, on slab		11%
24h/150°C, on O-Ring (3,53 mm)		21%
Heat Ageing 70h/125°C	ASTM D 573	
Hardness Change		+2°
Tensile Strength Change		+3%
Elongation Change		-2%
Immersion in water 70h/100°C		
Volume Change		+1%
Low temperature test	ASTM D 2137	
non brittle after 3 minutes at -40°C		pass

4. Temperature Resistance

- -55° to +155°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 150°C
Ozone	: very good

6. Advantages

- Special quality for high temperature applications, e.g. heat exchangers, central heating.
- Perfect thermocycling resistance in hot water applications.

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.