

EPDM 70-compound 559274 white - Technical Data Sheet

1. Introduction

EPDM 70-compound 559274 FDA-USP is made of Peroxide cured, white Terpolymer of Ethylene, Propylene and Diene monomers. Formulated using only those ingredients in conformity with FDA 21 CFR 177.2600 and USP class VI.

2. Product Description

Chemical Composition :	Peroxide cured, Terpolymer of Ethylene / Propylene and Diene
Physical form :	O-Rings / Mouldings
Colour :	White
Storage stability * :	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	70° ± 5° IRHD
Tensile Strength at break	ISO 37	5 MPa
Elongation at break	ISO 37	350%
Compression Set 24h/100°C	ISO 815	25%
Heat Resistance, 70h/100°C	ASTM D573	
Hardness Change	ISO 48 Method M	+5°
Tensile Strength Change	ISO 37	-5%
Elongation at break Change	ISO 37	-15%
Low temperature test	ASTM D 2137	non-brittle after 3 min. at -40°C

4. Temperature Resistance

- -40° 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 150°C
Ozone	: very good

6. Advantages

- Excellent water and steam resistance.
- Heat and chemical resistance is superior to that of sulphur cured EPDM.

7. Other Information

- Compound is formulated to FDA 177.2600 (class 1) and USP class VI
- Can be produced in small quantities, due to compression-moulding production facilities.
- Extraction tested (class 1).
- Certificate on demand.
- This compound is ADI (Animal Derived Ingredient Free).

