

## 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	ISO 188	
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).

