

EPDM 70-compound 55641 - Technical Data Sheet

1. Introduction

EPDM 70-compound 55641 is a standard EPDM Terpolymer. It has a good compression resistance. In compliance with FDA 177.2600.

2. Product Description

| | |
|------------------------|---|
| Chemical Composition : | Ethylene / Propylene / Diene Terpolymer |
| Physical form : | O-Rings / Mouldings |
| Colour : | Black |
| Odour : | None |
| 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 37C | 2236 psi |
| Elongation at break | ISO 37C | 243% |
| Specific Weight | ISO 2781 | 1,202 |
| Tear Resistance | ISO 34-1 | 33,5 KN/m |
| Modulus at 100% | ISO 37 | 840 psi |
| Compression Set 22h/150°C, on slab | ISO 815 | 22,8% |
| Heat Ageing 70h/150°C | ISO 188 | |
| Hardness Change | | +5° |
| Tensile Strength Change | | +3% |
| Elongation Change | | -19% |
| Weight Change | | -1,8% |
| Water Resistance 70h/100°C after drying 22h/100°C | ISO 1817 | |
| Hardness Change | | -1° |
| Tensile Strength Change | | +6% |
| Elongation Change | | +11% |
| Weight Change | | -3,8% |
| Low Temperature Test, 3 min/-55°C | ASTM D 2137 | pass |
| Ozone Resistance, 50 ppm, 70h/40°C | | pass |

4. Temperature Resistance

- -50° to +130°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

- Compliant with FDA 177.2600.

