

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.

