EPDM 70-compound 55641 - Technical Data Sheet

1. Introduction

EPDM 70-compound 55641 is a standard EPDM Terpolymer, Peroxide cured.
It has a good compression resistance.

2. Product Description

Chemical Composition	:	Ethylene / Propylene / Diene Terpolymer - Peroxide cured
Physical form	:	O-Rings / Mouldings
Colour	:	Black
Odour	:	None
*Storage stability **	:	7 years

** : Following DIN 7716 conditions*

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ASTM D 2240	70° ± 5° IRHD
Tensile Strength at break	ASTM D 412C	2236 psi
Elongation at break	ASTM D 412C	243%
Specific Weight	ASTM D 1817	1,202
Tear Resistance	ASTM D 624, die C	33,5 KN/m
Modulus at 100%	ASTM D 412	840 psi
Compression Set	ASTM 395B	
22h/150°C, on slab		22,8%
Heat Ageing 70h/150°C	ASTM D 865	
Hardness Change		+5°
Tensile Strength Change		+3%
Elongation Change		-19%
Weight Change		-1,8%
Water Resistance 70h/100°C	ASTM D 471	
after drying 22h/100°C		
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

- -55° to +150°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 low compression-set
- Excellent steam resistance
- Excellent ozone and weathering resistance

7. Other Information

- Compliant with FDA 177.2600.

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.

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