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. In compliance with FDA 177.2600.

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 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	ISO 815	
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	ISO 1817	
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 compound is ADI (Animal Derived Ingredient Free).

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