

EPDM 70-compound 55111 - Technical Data Sheet

1. Introduction

The ERIKS compound EPDM 55111 is a Peroxide cured EPDM-compound with many approvals, good chemical resistance and better physical properties than standard sulphur cured EPDM-compounds. Compound is very suitable for water and beverage applications.

2. Product Description

Chemical Composition :	Ethylene Propylene Diene Terpolymer, Peroxide cured
Physical form :	O-Rings / Mouldings
Colour :	Black
Storage stability * :	max. 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	70 ± 5 Shore A
Specific Weight	ISO 2781	1,12
Tensile Strength at break	ISO 37	16 N/mm ²
Elongation at break	ISO 37	160%
Compression Set		
22h/150°C	ISO 815	9%
3000h/110°C	ISO 815 (in water)	10%
Heat Ageing (in air), 70h/150°C	ISO 188	
Hardness Change		+1°
Volume Change		-0,1%
Weight Change		-0,1%
Ageing in water, 70h/100°C	ISO 1817	
Hardness Change		-1°
Volume Change		+1,5%
Weight Change		+1%

4. Temperature Resistance

- 55° to +150°C
- TR10: -36°C
- Brittleness (ASTM D 746): -58°C

5. Chemical Resistance

Alkali	: very good
Alcohol	: good
Ethers	: fair
Fats	: unsatisfactory
Hydrides	: unsatisfactory
Esters	: unsatisfactory
Air	: very good
Oils	: unsatisfactory
Ozone	: excellent
Water	: very good
Steam	: good up to 130°C

6. Advantages

- Very good compression set

7. Other Information

- Approvals after:
ACS
DVGW-W270
EN 681-1
conformity to FDA 21 CFR 177.2600
KTW
NSF 51 and 61
WRC
- This compound is ADI (Animal Derived Ingredient Free).

