

EPDM 70-compound 55111 - Technical Data Sheet

1. Introduction

The ERIKS compound EPDM 559003 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	160%
Elongation at break	ISO 37	16 N/mm ²
Compression Set		
22h/150°C	ISO 815	9%
3000h/110°C	ISO 815 (in water)	10%
Heat Ageing (in air), 70h/150°C	ASTM D 573	
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
Hydroxides	: unsatisfactory
Esters	: unsatisfactory
Air	: very good
Oils	: unsatisfactory
Ozone	: excellent
Water	: very good
Steam	: good up to 130°C

6. Advantages

- Very low 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).



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.