EPDM 70-compound WEP 4002 - Technical Data Sheet

1. Introduction

The WESTERN compound EPDM WEP 4002 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

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/mm2
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%

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

4. Temperature Resistance

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

6. Advantages

- Very good compression set