

## EPDM 70-compound 55914 - Technical Data Sheet

### 1. Introduction

EPDM 70-compound 55914 is an EPDM Terpolymer sulphur cured. It is the industrial standard EPDM O-Ring compound.

### 2. Product Description

|                      |                                           |
|----------------------|-------------------------------------------|
| Chemical Composition | : Ethylene / Propylene / Diene Terpolymer |
| 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                                                 | DIN 53519   | 70° ± 5° IRHD |
| Tensile Strength at break                                | DIN 53504   | min 10 MPa    |
| Elongation at break                                      | DIN 53504   | min 250%      |
| Specific Weight                                          | ASTM D 1817 | 1,13          |
| <b>Compression Set</b>                                   | DIN 53517   |               |
| 25% compression - 22h/100°C on slab                      |             | max 16%       |
| on O-Ring (3,53 mm)                                      |             | max 26%       |
| <b>Heat Ageing 70h/100°C</b>                             | DIN 53508   |               |
| Hardness Change                                          |             | max +14°      |
| Volume Change                                            |             | max -10%      |
| <b>Acetone immersion 46h/23°C after drying 22h/100°C</b> | DIN 53521   |               |
| Hardness Change                                          |             | max +6°       |
| Volume Change                                            |             | max -6%       |
| Weight Change                                            |             | max -5%       |

### 4. Temperature Resistance

- -50° to +130°C
- TR10 (low temp. resistance): -40°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           |

### 6. Advantages

- Very low compression-set
- Stock item for ca 3000 dimensions

### 7. Other Information

- See also our compound 55914PC for better steam and temperature resistance.

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.