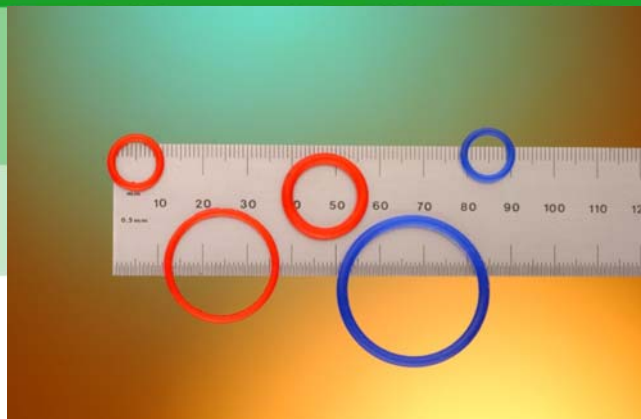


MATERIAL TEST DATA

TRP COMPOUND REFERENCE
Nº: S143 (page 1 of 2)

Polymer Type: Fluorosilicone Rubber

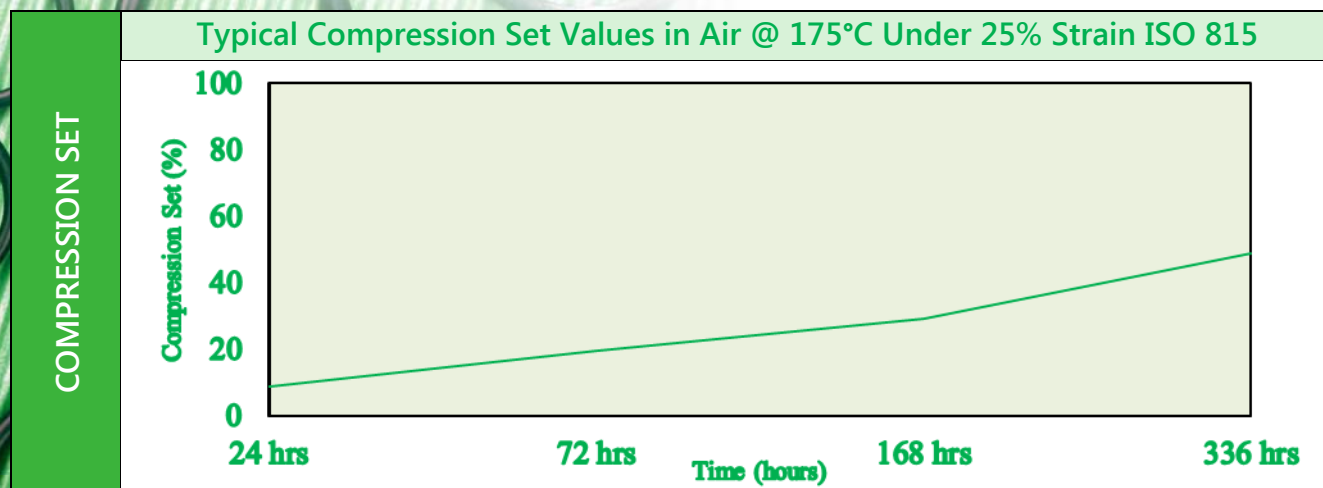


Description

This Fluorosilicone compound has significantly greater chemical resistance than silicone. It has a good resistant to hydrocarbon fluids and solvents. However, due to its high friction and limited abrasion resistance, Fluorosilicones are generally recommended for static applications.

Service Temperature -50°C (-58°F) to +200°C (+392°F).

| TYPICAL PHYSICAL PROPERTIES | Property | Typical Values | Test Standard |
|-----------------------------|---------------------------------------|----------------|---------------|
| | Colour | Blue | |
| | Hardness (°IRHD) | 61 | ISO 48 |
| | Tensile Strength (MPa) | 8.07 | ISO 37 |
| | Modulus @ 100% (MPa) | 3.29 | ISO 37 |
| | Elongation @ Break (%) | 297 | ISO 37 |
| | Tear Strength (N/mm) | 15.64 | ISO 34 |
| | Specific Gravity (g/cm ³) | 1.51 | ISO 2781 |



H I G H P E R F O R M A N C E E L A S T O M E R S

MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: S143 (page 2 of 2)

Polymer Type: Fluorosilicone Rubber

| AIR-AGEING | Property (after 168 hours @ 175°C) | Typical Values | Test Standard |
|------------|------------------------------------|----------------|---------------|
| | Hardness Change (°IRHD) | +7 | ISO 188 |
| | Tensile Change (%) | -14.09 | ISO 188 |
| | Elongation Change (%) | -25.63 | ISO 188 |
| | | | |
| | Property (after 336 hours @ 175°C) | Typical Values | Test Standard |
| | Hardness Change (°IRHD) | +11 | ISO 188 |
| | Elongation Change (%) | -27.98 | ISO 188 |

| ABSORPTION TEST | Property (after 168 hours @ 100°C) | Typical Values | Test Standard |
|-----------------|------------------------------------|----------------|---------------|
| | IRM 901 OIL | | |
| | Volume Change (%) | +0.21 | ISO 1817 |
| | Hardness Change (°IRHD) | +4 | |
| | | | |
| | IRM 903 OIL | | |
| | Volume Change (%) | +1.72 | ISO 1817 |
| | Hardness Change (°IRHD) | +5 | |
| | | | |
| | DISTILLED WATER | | |
| | Volume Change (%) | +2.34 | ISO 1817 |
| | Hardness Change (°IRHD) | +7 | |

The properties given on this data sheet is derived from tests carried out by TRP Polymer Solutions Ltd. They should not be regarded as specifications, but only as typical properties of the material described. It is intended for use by persons having technical skills and understanding of the seal and gasket design. Since the conditions of use are outside our control, nor have we designed the product shape, we can make no warranties, express or implied and assume no liability in connection with any use of this information.

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