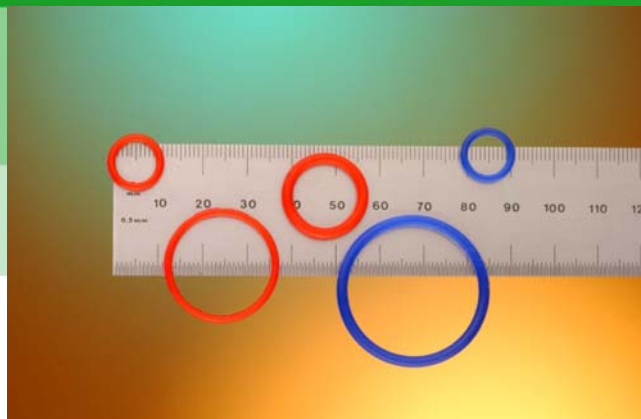


MATERIAL TEST DATA

TRP COMPOUND REFERENCE
N°: PU141 (page 1 of 2)

Polymer Type: Polyurethane

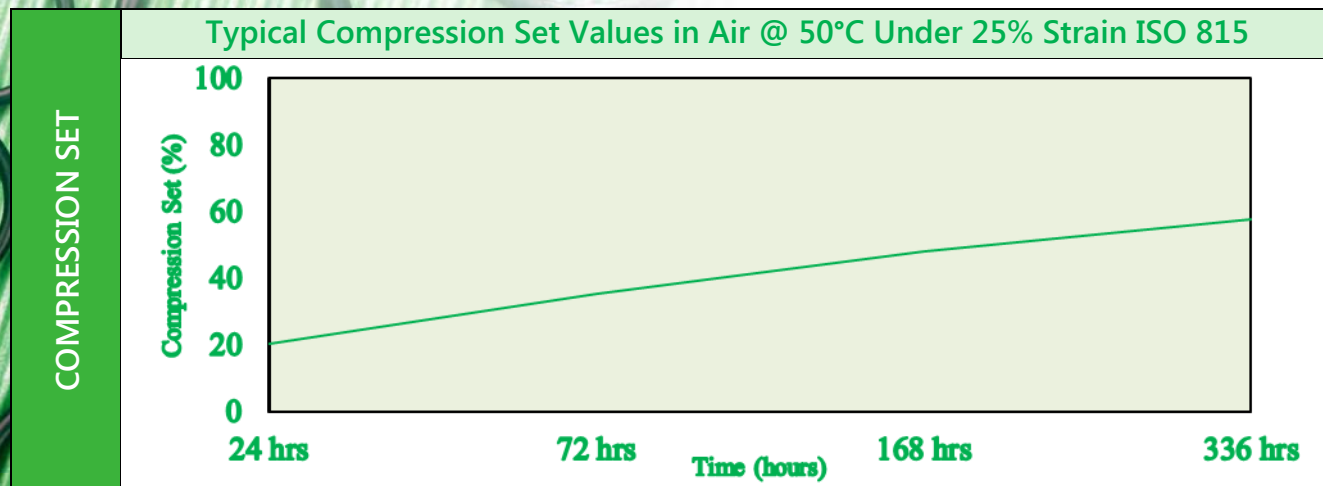


Description

A 60-70 shore A hardness polyurethane compound offering excellent abrasion resistance. It is suitable for a wide range of industrial applications, it offers good resistance to ozone, oil and fuels and has good hydrolytic stability.

It has excellent low temperature performance and will seal at temperatures down to -50°C (-58°F).

| TYPICAL PHYSICAL PROPERTIES | Property | Typical Values | Test Standard |
|-----------------------------|---------------------------------------|----------------|---------------|
| | Colour | Black | |
| | Hardness (°IRHD) | 64 | ISO 48 |
| | Tensile Strength (MPa) | 36.6 | ISO 37 |
| | Modulus @ 100% (MPa) | 3.12 | ISO 37 |
| | Elongation @ Break (%) | 498 | ISO 37 |
| | Tear Strength (N/mm) | 49.2 | ISO 34 |
| | Specific Gravity (g/cm ³) | 1.19 | 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°: PU141 (page 2 of 2)

Polymer Type: Polyurethane

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

| AIR-AGEING | Property (after 168 hours @ 80°C) | Typical Values | Test Standard |
|------------|-----------------------------------|----------------|---------------|
| | Hardness Change (°IRHD) | +13 | ISO 188 |
| | Tensile Change (%) | -37.4 | ISO 188 |
| | Elongation Change (%) | -26.9 | ISO 188 |
| | Property (after 336 hours @ 80°C) | Typical Values | Test Standard |
| | Hardness Change (°IRHD) | +14 | ISO 188 |
| | Tensile Change (%) | -45.9 | ISO 188 |
| | Elongation Change (%) | -35.7 | ISO 188 |

| ABSORPTION TEST | Property (after 168 hours @ 80°C) | Typical Values | Test Standard |
|-----------------|-----------------------------------|----------------|---------------|
| | IRM 901 OIL | | |
| | Volume Change (%) | -4.18 | ISO 1817 |
| | Hardness Change (°IRHD) | +14 | |
| | IRM 903 OIL | | |
| | Volume Change (%) | +11.65 | ISO 1817 |
| | Hardness Change (°IRHD) | +8 | |
| | DISTILLED WATER | | |
| | Volume Change (%) | +3.53 | ISO 1817 |
| | Hardness Change (°IRHD) | +4 | |

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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