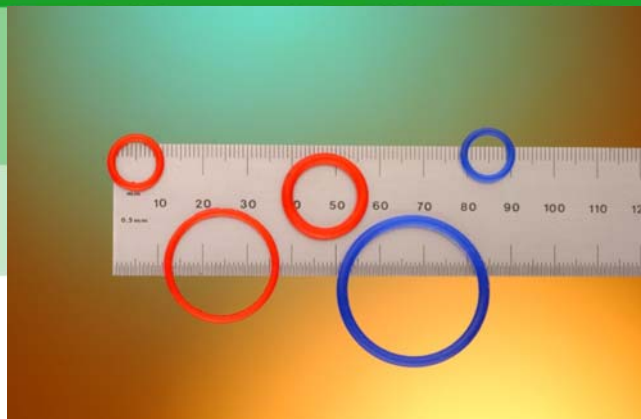


MATERIAL TEST DATA

TRP COMPOUND REFERENCE
N°: C104 (page 1 of 2)

Polymer Type: Acrylonitrile Butadiene
(Nitrile)

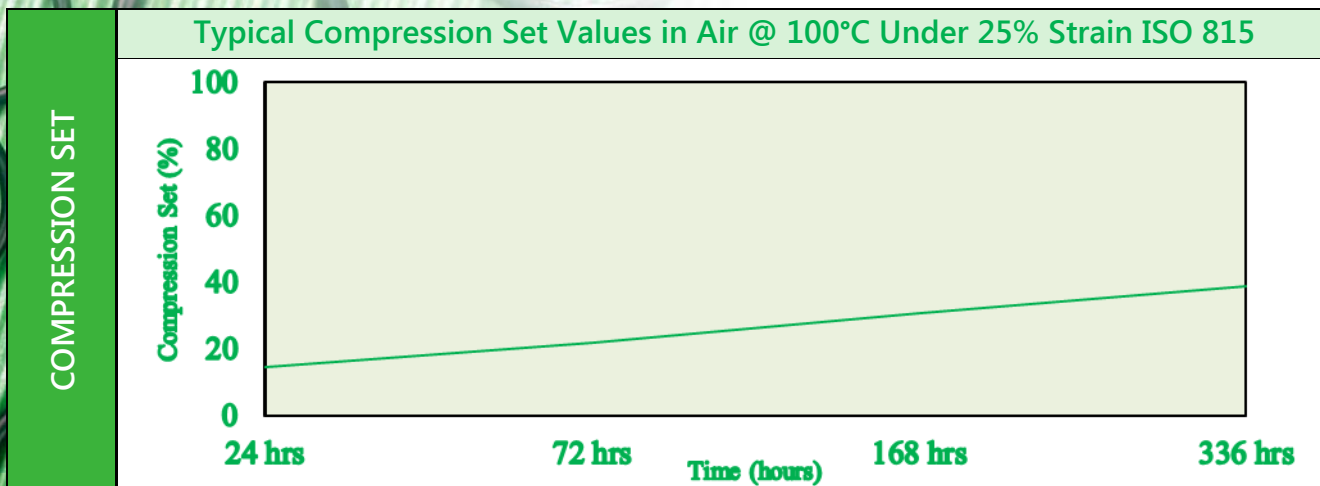


Description

A general purpose sulphur cured medium acrylonitrile (NBR). It is suitable for a wide range of industrial application, particularly involving oils and aqueous solutions. The material offer excellent resistance to compression set and is formulated

meet the requirements of FDA 21 CFR 177.2600.
Service Temperatures -25°C (-13°F) to +100°C (+212°F).

| TYPICAL PHYSICAL PROPERTIES | Property | Typical Values | Test Standard |
|-----------------------------|---------------------------------------|----------------|---------------|
| | Colour | Black | |
| | Hardness (°IRHD) | 63 | ISO 48 |
| | Tensile Strength (MPa) | 14.9 | ISO 37 |
| | Modulus @ 100% (MPa) | 2.2 | ISO 37 |
| | Elongation @ Break (%) | 390 | ISO 37 |
| | Tear Strength (N/mm) | 48.2 | ISO 34 |
| | Specific Gravity (g/cm ³) | 1.18 | 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°: C104 (page 2 of 2)

Polymer Type: Acrylonitrile Butadiene (Nitrile)

| AIR-AGEING | Property (after 168 hours @ 100°C) | Typical Values | Test Standard |
|------------|------------------------------------|----------------|---------------|
| | Hardness Change (°IRHD) | +12 | ISO 188 |
| | Tensile Change (%) | -23.2 | ISO 188 |
| | Elongation Change (%) | -66.1 | ISO 188 |
| | Property (after 336 hours @ 100°C) | Typical Values | Test Standard |
| | Hardness Change (°IRHD) | +16 | ISO 188 |
| | Tensile Change (%) | -30.6 | ISO 188 |
| | Elongation Change (%) | -81.4 | ISO 188 |

| ABSORPTION TEST | Property (after 168 hours @ 100°C) | Typical Values | Test Standard |
|-------------------|------------------------------------|----------------|---------------|
| | IRM 901 OIL | | |
| | Volume Change (%) | -8.2 | ISO 1817 |
| | IRM 903 OIL | | |
| Volume Change (%) | +11.3 | ISO 1817 | |

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.

| Data Sheet | Page | Issue Date | Issue No. | Issue By |
|------------|--------|------------|-----------|----------|
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