

TRP COMPOUND REFERENCE N°: T108

Customer Reference

- TRPlast™ 300B – High Temperature

**POLYMER TYPE:** Perfluoroelastomer (FFKM)

**DESCRIPTION:**

This black high temperature material provides excellent temperature resistance up to and in excess of + 300°C (+572°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers.

Along with all our TRPlast™ range, this grade is suitable for use in a wide range of applications where other polymers are not suitable.

### TYPICAL PHYSICAL PROPERTIES

| PROPERTY   | TYPICAL VALUES | TEST STANDARD |
|--|----------------|---------------|
| HARDNESS (IRHD)                                  | 70 IRHD        | ISO 48        |
| TENSILE STRENGTH (Mpa)                           | 17.5 MPa       | ISO 37        |
| MODULUS @ 100% (Mpa)                             | 10 MPa         | ISO 37        |
| ELONGATION @ BREAK (%)                           | 160 %          | ISO 37        |
| TEAR STRENGTH (N/mm)                             | 36.1 N/mm      | ISO 34        |
| SPECIFIC GRAVITY                                 | 1.91           | ISO 2781      |
| 72 HRS COMPRESSION SET @ 204°C UNDER 25 % STRAIN | 18 %           | ASTM D1414    |

### CHEMICAL RESISTANCE

1. Suitable, little or no effect.
2. Minor to moderate effect, not maximum resistance.
3. Moderate to severe effect – may be useful in some limited applications.
4. Unsuitable and not recommended – severe effect.

**Chemical Group**

**Rating**

|                            |   |
|----------------------------|---|
| Aromatics / Aliphatic oils | 1 |
| Acids                      | 1 |
| Alkalis                    | 1 |
| Alcohol's                  | 1 |
| Aldehydes                  | 1 |
| Amines                     | 1 |
| Ethers                     | 1 |
| Ethylene Oxide             | 1 |
| Esters                     | 1 |
| Ketones                    | 1 |
| Propylene Oxide            | 1 |
| Steam / Hot Water          | 1 |
| Strong Oxidisers           | 1 |

More detailed information available upon request

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