MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: TRPlast™ 300B High Temperature Hot Water/Steam

Polymer Type: Perfluoroelastomer (FFKM)

Description

This black material provides excellent temperature resistance up to +300°C (+572°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. This material has been developed for high temperature water and steam applications. Along with all our TRPlast™ range, this grade



is suitable for use in a wide range of applications where other polymers are not suitable. Do not use any TRPlast™ grade with molten alkali metals. Service Temperatures +300°C (+572°F) to -15°C (+5°F).

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Property	Typical Values	Test Standard
Colour	Black	
Hardness (°IRHD)	78	ISO 48
Tensile Strength (MPa)	21.2	ISO 37
Modulus @ 100% (MPa)	12.9	ISO 37
Elongation @ Break (%)	165	ISO 37
Tear Strength (N/mm)	25.1	ISO 34
Specific Gravity (g/cm³)	2.00	ISO 2781
Compression Set Value in Air, 25% Strain, 24 hrs @ 204°C (%)	15.3	ISO 815

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Chemical Group	Rating	Chemical Group	Rating
Aromatics/Aliphatic oils	1	Ethylene	1
Acids	2	Esters	1
Alkalis	1	Ketones	1
Alcohols	1	Propylene Oxide	1
Aldehydes	1	Steam/Hot Water	1
Amines	1	Strong Oxidisers	1
Ethers	1	Amines >70°C	2

- 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

More detailed information available on request

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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