

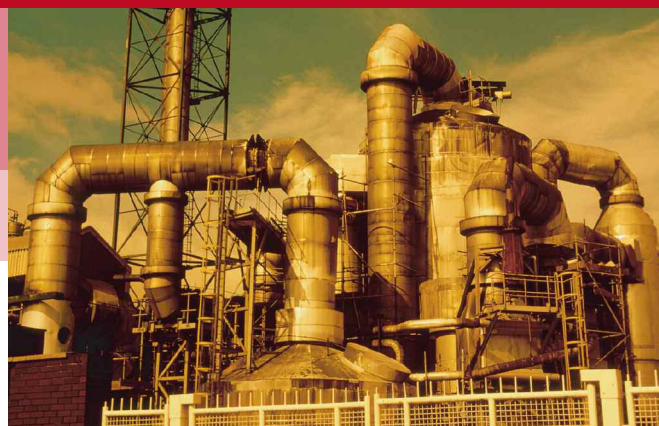
# MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°:  
TRPlast™ 316B High Temperature

Polymer Type: Perfluoroelastomer (FFKM)

## Description

This Black material provides excellent temperature resistance up to +316°C (+600°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Developed for optimum resistance through thermal cycling. This material is not suitable 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 +316°C (+600°F) to -15°C (+5°F).

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	77	ISO 48
	Tensile Strength (MPa)	14.9	ISO 37
	Modulus @ 100% (MPa)	12.7	ISO 37
	Elongation @ Break (%)	121	ISO 37
	Tear Strength (N/mm)	10.9	ISO 34
	Specific Gravity (g/cm³)	2.03	ISO 2781
	Compression Set Value in Air, 25% Strain, 24 HRS @ 204°C (%)	14.3	ISO 815

CHEMICAL RESISTANCE	Chemical Group	Rating	Chemical Group	Rating
	Aromatics/Aliphatic oils	1	Ethylene Oxide	1
	Acids	1	Esters	1
	Alkalis	1	Ketones	1
	Alcohols	1	Propylene Oxide	1
	Aldehydes	1	Steam/Hot Water	4
	Amines	1	Strong Oxidisers	1
	Ethers	1		
<b>1 Suitable, little or no effect.</b> <b>2 Minor to moderate effect, not maximum resistance.</b> <b>3 Moderate to severe effect – may be useful in some limited applications.</b> <b>4 Unsuitable and not recommended – severe effect</b> <i>More detailed information available upon request</i>				

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