

MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°:
TRPlast™ 280B Universal Black

Polymer Type: Perfluoroelastomer (FFKM)



Description

This black material provides excellent temperature resistance up to +280°C (+536°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. Do not use any TRPlast™ grade with molten alkali metals. Service Temperatures +280°C (+536°F) to -15°C (+5°F).

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	69	ISO 48
	Tensile Strength (MPa)	15.6	ISO 37
	Modulus @ 100%	13.6	ISO 37
	Elongation @ Break (%)	110	ISO 37
	Tear Strength (N/mm)	12.6	ISO 34
	Specific Gravity (g/cm ³)	1.03	ISO 2781
	Compression Set Value in Air, 25% Strain, 24 HRS @ 204°C (%)	9.7	ISO 815

CHEMICAL RESISTANCE	Chemical Group	Rating	Chemical Group	Rating
	Aromatics/Aliphatic oils	1	Ethylene	1
	Acids	1	Esters	1
	Alkalis	1	Ketones	1
	Alcohols	1	Propylene Oxide	1
	Aldehydes	1	Steam/Hot Water	1
	Amines	1	Strong Oxidisers	1
	Ethers	1		

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

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