

MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°:
TRPlast® Bond+

Polymer Type: Perfluoroelastomer (FFKM)

Description

This black material has been developed to have superior rubber to metal bonding characteristics over standard FFKM materials. It has excellent chemical resistance similar to that of PTFE but with elastomeric properties of FKM.

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 +240°C (+464°F) to -15°C (+5°F).

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	71	ISO 48
	Tensile Strength (MPa)	19.3	ISO 37
	Modulus @ 100%	16.1	ISO 37
	Elongation @ Break (%)	125	ISO 37
	Tear Strength (N/mm)	20.2	ISO 34
	Specific Gravity (g/cm³)	1.99	ISO 2781
	Compression Set Value in Air, 25% Strain, 24 hrs @ 200°C (%)	10.7	ISO 815

CHEMICAL RESISTANCE	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 <i>This material has excellent resistance to temperature, up to 240°C. However, bond strength may be compromised at temperatures above 200°C, therefore we recommend testing is carried out to prove suitability.</i>			

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