

# MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°:  
TRPlast™ 300W Ultra Pure

Polymer Type: Perfluoroelastomer (FFKM)



## Description

This white 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. It has been formulated specifically for use in the semiconductor industry to offer low weight loss oxygen and fluorine-based plasma with low outgassing.

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

HIGH TEMPERATURES / AGGRESSIVE CHEMICALS

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	White	
	Hardness (°IRHD)	70	ISO 48
	Tensile Strength (MPa)	17.3	ISO 37
	Modulus @ 100% (MPa)	5.51	ISO 37
	Elongation @ Break (%)	233	ISO 37
	Tear Strength (N/mm)	13.3	ISO 34
	Specific Gravity (g/cm <sup>3</sup> )	2.41	ISO 2781

COMPRESSION SET	Property	Typical Values	Test Standard
	<b>Compression Set Value in Air, 25% Strain</b>		
	22 HRS @ 204°C (%)	18.7	ISO 815
	72 HRS @ 204°C (%)	23.3	ISO 815
	168 HRS @ 204°C (%)	31.1	ISO 815

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Data Sheet	Page	Issue Date	Issue No.	Issue By
MD40	1 OF 1	19.12.08	1	TJY