

25% CARBON SHEET



Property	Method	Units	Specification
Specific Gravity	ISO 1183	g/cc	2,11
Tensile Strength	ISO 527	MPa	13
Elongation	ISO 527	%	60
Hardness	ISO 868	Shore D	62
Flexural Modulus	23°C	N/mm ²	
Deformation under loan (140 Kg/cm ² for 24 hours at 23°C)	ASTM D695	%	5-7
Permanent deformation (after 24 hours relaxation at 23°C)	ASTM D695	%	2-4
Thermal conductivity	ASTM C177	W./m.K	0.6
Coefficient of linear thermal Expansion (T=25 - 100°C)		10 ⁻⁵ /°C	7-12,5
Friction Coefficient	ASTM D1894	/	0.12
Dielectric Constant at 60 Hz to 2 GHz	ASTM D150	/	
Dielectric Strength	IEC 60243-1	KV/mm	
Volume Resistivity	IEC 60093	Ohm cm	10 ⁴
Surface Resistivity	IEC 60093	Ohm	10 ³
Service Temperature		C°	-200 / +260
Excellent resistance to continues service temperatures up to 260°C and, for limited periods, even to higher temperatures, the low temperature resistance of the product allows satisfactory performance at -200°C			
Flammability	UL 94	%	V-0
Melting Point		C°	325-335
Water adsorption	ASTM D570		

Chemical Resistance

PTFE possesses a high inertness towards nearly all known chemicals. It is only attacked by elemental alkali metals, chlorine trifluoride and elemental fluorine at high temperature and pressures.

Solvents Resistance

PTFE is insoluble in all solvents up to temperatures as high s 300°C (572°F). Certain highly fluorinated oils only swell and dissolve PTFE at temperature close to the crystalline melting point

Food Approval

USA regulations (FDA, Food and Drug Administration, Department of Health and Human Services; Code of Federal Regulations 21 CFR Ch. 1 177.1550 (a) and (b)- Perfluorocarbon Resins



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Complete Sealing Solutions

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