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Material Specification 105

(Typical Properties)

Product: 25% Glass Fibre Filled PTFE (polytetrafluoroethylene)

Property	Method	Units	Specification
Specific gravity	ASTM D792	g/cc	2,230 – 2,260
Tensile strength	ASTM D4894	MPa	13 – 18
Elongation	ASTM D4894	%	180 - 220
Hardness	ASTM D2240	Shore D	60 - 65
Deformation under load (140 Kg/cm ² for 24 hrs. At 23°C)	ASTM D695	%	10 - 12
Permanent deformation (after 24 hrs. Relaxation at 23°C)	ASTM D695	%	5 – 6
Friction Coefficient	ASTM D1894	/	0,15 (Dynamic)
Volume Resistivity	ASTM D257	Ohm cm	10 ¹⁵
Water Absorbtion	ASTM D570	%	0.013
Service Temperature		C°	-200 / +260
Excellent resistance to continuous service temperature 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			
Flamability	UL 94	%	V-0
Melting Point		C°	325 – 335

FDA Approved:

(Code of Federal regulation 21 CFR Ch.1, revised as of April 1, 1999 Edition);
Sections 175.105-175.300-176.170-176.180-177.1520-177.1550-177.2600-178.3570.
"Perfluorocarbon Resins" of the Food and Drug Administration/USA.

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