

TECAPEEK GF30 LSP

Description:

High performance thermoplastic material, glass fibre reinforced Polyetheretherketone (PEEK), semi crystalline, color natural (beige)

CONDITIONS	Test method	Units	Typical value	
Mechanical Data				
Tensile Strength	Break, 23°C	ISO 527	MPa	145
Tensile Elongation	Break, 23°C	ISO 527	%	3.5
Tensile Modulus	23°C	ISO 527	GPa	10.5
Flexural Strength	23°C	ISO 178	MPa	245
Flexural Modulus	23°C	ISO 178	GPa	9
Izod Impact Strength	Notched, 23°C	ISO 180/A	kJ m ⁻²	8.5
	Unnotched, 23°C	ISO 180/U		60
Thermal Data				
Melting Point		ISO 11357	°C	343
Glass Transition (Tg)	Onset	ISO 11357	°C	143
Specific Heat Capacity	23°C	DSC	kJ kg ⁻¹ °C ⁻¹	1.7 *
Thermal Conductivity	23°C	ISO/CD 22007-4	W m ⁻¹ °C ⁻¹	0.30 *
Flow				
Melt Viscosity	400°C	ISO 11443	Pa.s	600
Miscellaneous				
Density	Crystalline	ISO 1183	g cm ⁻³	1.53
Water Absorption (3.2mm th (by immersion)	24h, 23°C	ISO 62-1	%	0.04 *
	Equilibrium, 23°C			0.3 *

* - result based on similar grades