

Glass Fiber Reinforced Grade

SPESIN[®]

PBT Compound resin,

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.41
Shrinkage	ASTM D955	%	0.7-1.1
Water Absorption 23 °C, Equilibrium 60%RH	ASTM D570	%	0.05
Thermal			
Melting Point	ASTM D3418	°C	224
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	220
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	205
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.4
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23 °C	ASTM D638	MPa	140
Tensile Elongation 23 °C	ASTM D638	%	3.2
Flexural Strength 23 °C	ASTM D790	MPa	234
Flexural Modulus 23 °C	ASTM D790	MPa	12000
Notched Izod Impact Strength 23 °C	ASTM D256	J/m (kg ·cm/cm)	107 (11)
Rockwell Hardness R scale	ASTM D785	g/cc	120
Electrical			
Arc Resistance	ASTM D495	sec	120
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.2
Dielectric Strength	ASTM D149	KV/mm	30

