

Glass Fiber Reinforced, Flame Retardant Grade

SPESIN®

PBT Compound resin,
Flame retardant, high flow

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.63
Shrinkage		ASTM D955	%	0.7-1.0
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	225
	HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	200
Coeff. Of Linear Thermal Expansion		ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.4
Flammability		UL 94		V0
Mechanical				
Tensile Strength	23 °C	ASTM D638	MPa (kg/cm ²)	132(1350)
Tensile Elongation	23 °C	ASTM D638	%	5
Flexural Strength	23 °C	ASTM D790	MPa (kg/cm ²)	206(2100)
Flexural Modulus	23 °C	ASTM D790	MPa (kg/cm ²)	8826(90000)
Notched Izod Impact Strength	23 °C	ASTM D256	J/m (kg·cm/cm)	78(8)
Rockwell Hardness	R scale	ASTM D785	g/cc	120
Electrical				
Arc Resistance		ASTM D495	sec	110
Dielectric Constant		ASTM D150	10 ⁶ Hz	3.7
Dielectric Strength		ASTM D149	KV/mm	27

