

Glass Fiber Reinforced, Halogen Free Flame Retardant Grade

SPESIN[®]

Halogen Free, Flame retardant, G/F 30% reinforced

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.57
Shrinkage		ASTM D955	%	0.3~1.0
Water Absorption	23℃, Equilibrium 60%RH	ASTM D570	%	0.08
Thermal				
Melting Point		ASTM D3418	℃	224
Heat Deflection Temperature under Load		ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)			℃	220
HDT/A 1.82 MPa (18.6 kg/cm ²)			℃	210
Coefficient of linear expansion		ASTM D696	× 10 ⁻⁴ cm/cm · °C	0.4
Flammability (1/32")		UL 94		V0
Mechanical				
Tensile Strength	23℃	ASTM D638	kg/cm ²	1,000
Tensile Elongation	23℃	ASTM D638	%	5
Flexural Strength	23℃	ASTM D790	kg/cm ²	1,700
Flexural Modulus	23℃	ASTM D790	kg/cm ²	82,000
Notched Izod Impact Strength	23℃	ASTM D256	kg·cm/cm	6.5
Rockwell hardness		ASTM D785	R scale	120
Electrical				
Comparative Tracking Index(CTI)		IEC 60112	Volts	600
Arc resistivity		ASTM D495	sec	110
Breakdown voltage		ASTM D149	KV/mm	27

