

General Grade

SPESIN[®]

PBT Compound resin,
General, Black color

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.31
Shrinkage		ASTM D955	%	1.7-2.3
Water Absorption	23 °C, Equilibrium 60%RH	ASTM D570	%	0.08
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	155
HDT/A 1.82 MPa (18.6 kg/cm ²)			°C	60
Coeff. Of Linear Thermal Expansion		ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.8
Flammability		UL 94		HB
Mechanical				
Tensile Strength	23 °C	ASTM D638	MPa (kg/cm ²)	62(632)
Tensile Elongation	23 °C	ASTM D638	%	100
Flexural Strength	23 °C	ASTM D790	MPa (kg/cm ²)	87(890)
Flexural Modulus	23 °C	ASTM D790	MPa (kg/cm ²)	2500(25500)
Notched Izod Impact Strength	23 °C	ASTM D256	J/m (kg·cm/cm)	39(4)
Rockwell Hardness	R scale	ASTM D785	g/cc	118
Electrical				
Arc Resistance		ASTM D495	sec	120
Dielectric Constant		ASTM D150	10 ⁶ Hz	3.1
Dielectric Strength		ASTM D149	KV/mm	28

