

**PRODUCT INFORMATION**

Glass Fiber Reinforced Grade

**SPESIN<sup>®</sup> KP213G15BL**

 PBT Compound resin,  
 G/F 15% reinforced, BLACK

Property	Test Method	Units	Value
<b>Physical</b>			
Specific Gravity	ASTM D792	-	1.41
Shrinkage	ASTM D955	%	0.7-1.1
Water Absorption      23 °C, Equilibrium 60%RH	ASTM D570	%	0.05
<b>Thermal</b>			
Melting Point	ASTM D3418	°C	224
Heat Deflection Temperature under Load	ASTM D648		
HDT/A    0.45 MPa ( 4.6 kg/cm <sup>2</sup> )		°C	220
HDT/A    1.82 MPa ( 18.6 kg/cm <sup>2</sup> )		°C	205
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 <sup>-4</sup> cm/cm·°C	0.4
Flammability	UL 94		HB
<b>Mechanical</b>			
Tensile Strength                      23 °C	ASTM D638	MPa (kg/cm <sup>2</sup> )	98(1000)
Tensile Elongation                    23 °C	ASTM D638	%	8
Flexural Strength                      23 °C	ASTM D790	MPa (kg/cm <sup>2</sup> )	167(1700)
Flexural Modulus                      23 °C	ASTM D790	MPa (kg/cm <sup>2</sup> )	5394(55000)
Notched Izod Impact Strength      23 °C	ASTM D256	J/m (kg cm/cm)	49(5)
Rockwell Hardness                    R scale	ASTM D785	g/cc	120
<b>Electrical</b>			
Arc Resistance	ASTM D495	sec	120
Dielectric Constant	ASTM D150	10 <sup>6</sup> Hz	3.2
Dielectric Strength	ASTM D149	KV/mm	30

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