

## PRODUCT INFORMATION

Glass Fiber Reinforced, Flame Retardant Grade

# SPESIN<sup>®</sup> KP212G30V0BL

PBT Compound resin,  
G/F 30% Reinforced, Flame Retardant, BLACK

Property	Test Method	Units	Value
<b>Physical</b>			
Specific Gravity	ASTM D792	-	1.63
Shrinkage	ASTM D955	%	0.7-1.0
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	200
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 <sup>-4</sup> cm/cm·°C	0.4
Flammability	UL 94		V0
<b>Mechanical</b>			
Tensile Strength 23°C	ASTM D638	MPa (kg/cm <sup>2</sup> )	132(1350)
Tensile Elongation 23°C	ASTM D638	%	5
Flexural Strength 23°C	ASTM D790	MPa (kg/cm <sup>2</sup> )	206(2100)
Flexural Modulus 23°C	ASTM D790	MPa (kg/cm <sup>2</sup> )	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
<b>Electrical</b>			
Arc Resistance	ASTM D495	sec	110
Dielectric Constant	ASTM D150	10 <sup>6</sup> Hz	3.7
Dielectric Strength	ASTM D149	KV/mm	27



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