

SPESIN[®] KP219G15BL

PBT+GF15%, Injection Molding, Black

Application

Auto(Connector), E&E

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	—	1.4
Shrinkage		ASTM D955	%	0.5~1.1
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.07
Mechanical				
Tensile Strength at Break (3.2mm)	5 mm/min	ASTM D638	MPa	95
Elongation at Break (3.2mm)	5 mm/min	ASTM D638	%	—
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	170
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	5,500
Izod Impact Strength (Notched)	(6.4mm) 23 ℃	ASTM D256	J/m	49
Thermal				
Melting Point	20 ℃/min	ASTM D1525	℃	224
Heat Deflection Temperature	1.82 MPa	ASTM D648	℃	205
Coefficient of linear expansion		ASTM D696	× 10 ⁻⁴ cm/cm · ℃	—
Flammability (0.71mm)		UL94	Class	HB
Electrical				
Comparative Tracking Index (CTI)		UL 746 A	PLC	2
Dielectric Strength (1mm)		IEC 60243	kV/mm	—



Processing Guide (Injection Molding)

Drying Temperature(℃)	100~120	(Dehumidifying Dryer)			
Drying Time(hr)	3~5				
Processing Moisture Contents(%)	≤ 0.04				
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear	
	245~265	245~270	240~260	230~250	
Mold Temperature(℃)	60~100				

