

SPESIN[®] KP213G15

PBT+GF15%, Injection Molding

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	93
Elongation at Break	(3.2mm)	5 mm/min	ASTM D638	%	—
Flexural Strength	(3.2mm)	5 mm/min	ASTM D790	MPa	162
Flexural Modulus	(3.2mm)	5 mm/min	ASTM D790	MPa	5,200
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	25



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				

