

SPESIN[®] KP213G15HR

PBT+GF15%, Injection Molding, Heat Resistance

Application

E&E, Automotive(Connector)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.40
Shrinkage		ASTM D955	%	0.4~1.1
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.07
Mechanical				
Tensile Strength at Break	(3.2mm) 5 mm/min	ASTM D638	MPa	98
Elongation at Break	(3.2mm) 5 mm/min	ASTM D638	%	6.5
Flexural Strength	(3.2mm) 5 mm/min	ASTM D790	MPa	167
Flexural Modulus	(3.2mm) 5 mm/min	ASTM D790	MPa	4,900
Izod Impact Strength	(6.4mm)	ASTM D256		
(Notched)	23 ℃		J/m	54
	-30 ℃		J/m	-
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	223
Heat Deflection Temperature	1.82 MPa	ASTM D648	℃	205
Coefficient of linear expansion		ASTM D696	× 10 ⁻⁴ cm/cm·℃	-
Flammability	(0.8mm)	UL94	Class	-
Electrical				
Comparative Tracking Index (CTI)		UL 746 A	PLC	-
Dielectric Strength	(1mm)	IEC 60243	kV/mm	-
Volume Resistivity		IEC 60093	Ω·cm	-
Surface Resistivity		IEC 60093	Ω/sq	-



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				

