KOLON PLASTICS

SPESIN® KP211

PBT, Unreinforced, Injection molding

Application
Auto, E&E

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.31
Shrinkage		ASTM D955	%	1.7~2.1
Water Absorption	23℃, H_2O, 24hr	ASTM D570	%	0.08
Mechanical				
Tensile Strength at Break (3.2mm)	50 mm/min	ASTM D638	MPa	58
Elongation at Break (3.2mm)	50 mm/min	ASTM D638	%	20
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	96
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	2,550
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	50
	-30 ℃		J/m	-
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	224
Heat Deflection Temperature	0.45 MPa	ASTM D648	℃	155
	1.82 MPa	ASTM D648	℃	55
Coefficient of linear expansion		ASTM D696	$\times 10^{-4}$cm/cm·℃	-
Flammability (0.7mm)		UL94	Class	HB
Electrical				
Comparative Tracking Index (CTI)		UL 746 A	PLC	1
Dielectric Strength (1mm)		IEC 60243	kV/mm	20
Volume Resistivity		IEC 60093	Ω·cm	13
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
	235~250	235~255	230~245	220~235
Mold Temperature(℃)	30~70			