

Product Information

Flame Retardant Grade

SPESIN[®]

SPESIN[®] is the plastic material based on PBT(Polybutyleneterephthalate). SPESIN is a thermal plastic resin with excellent electric features, and is widely used as major parts in general industries. It is especially widely used in electricity and electronics industries. KOLON Plastics includes no heavy metal, and is providing safer environment-friendly materials to the market by developing environment-friendly 'non-halogen heat-resistance SPESIN' that does not discharge environment hormones harmful to the human body even when the product is combusted in the case of a fire.

SPESIN[®] KP212V0

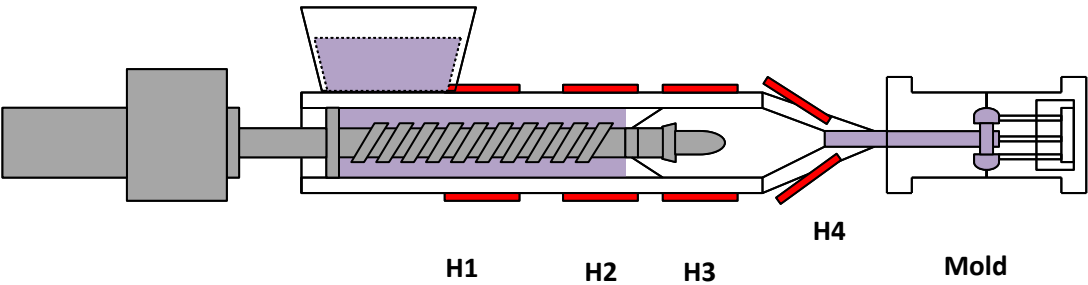
: Flame retardant grade

Properties		Test Method	Unit	Mid-Value
Physical				
Specific Gravity		ISO 1183	-	1.42
Filler Contents		ISO 1172	%	-
Shrinkage	Flow/Transverse	ISO 294	%	1.94/1.94
Water Absorption	23°C, H ₂ O, 24hr	ISO 62	%	0.13
Mechanical				
Tensile Strength	23°C	ISO 527	Mpa	55
Tensile Elongation	23°C	ISO 527	%	4.3
Flexural Strength	23°C	ISO 178	Mpa	85
Flexural Modulus	23°C	ISO 178	Mpa	2,405
Notched Charpy Impact Strer	23°C	ISO 179/1eA	kJ/m ²	3.2
Rockwell Hardness		ISO 2039-2	R scale	118
Thermal				
Melting Point		ISO 11357-1	°C	223
Heat Deflection Temperature		ISO 75		
	0.45 MPa		°C	
	1.8 MPa		°C	55
Flammability(0.8mm)		UL94		V0

Electrical

Comparative Tracking Index(CTI)	IEC 60112	Volts	
Volume Resistivity	IEC 60093	Ohm·cm	
Surface Resistivity	IEC 60093	Ohm	

Processing Guide (Injection Molding)



	H1	H2	H3	H4
Cylinder Temperature(°C)	240	245	250	250
Mold Temperature(°C)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 100~120°C, 3~5hr			

