

SPESIN[®] KP270EX

PBT, High viscosity, Extrusion grade

Application

OFC loose tube, Auto(Cable)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	—	1.31
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.08
Melt Index	250℃, 2160g	ASTM D1238	g/10min	10±2
Viscosity number	Phenol:1,2 Dichlorobenzene=1:1	ISO 1628-5	mL/g	160
Mechanical				
Tensile Strength at Brea (3.2mm)	50 mm/min	ASTM D638	MPa	51
Elongation at Break (3.2mm)	50 mm/min	ASTM D638	%	> 100
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	90
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	2,550
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	59
Thermal				
Melting Point	20 ℃/min	ASTM D1525	℃	224
Heat Deflection Temperature	0.45 MPa	ASTM D648	℃	60
	1.82 MPa	ASTM D648	℃	170
Flammability (0.8mm)		UL94	Class	HB



Processing Guide (Extruding)

Drying Temperature(℃)	100~120	(Dehumidifying Dryer)			
Drying Time(hr)	3~5				
Processing Moisture Contents(%)	≤ 0.04				
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear	
	260~275	260~270	260~270	250~265	
Cooling Temperature(℃)	1st zone	2nd zone	3rd zone		
	50~60	50~60	20~30		
Extruder	L/D=24				
Compression Ratio	3:1				

