

PRODUCT INFORMATION

General Grade

SPE SIN[®] KP270EX

PBT resin, Excellent high speed extrudability for Optical fiber

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.31
Shrinkage	ASTM D955	%	1.8
Water Absorption 23 °C, Equilibrium 60%RH	ASTM D570	%	0.07
Thermal			
IV (OCP Method)	OCP Method	dl/g	2.1
Melt Index (250 °C × 2.16kg)	ASTM D1238	g/10min	11
Melting Point	ASTM D3418	°C	224
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	155
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	70
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.8
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23 °C	ASTM D638	MPa (kg/cm ²)	54(555)
Tensile Elongation 23 °C	ASTM D638	%	> 100
Flexural Strength 23 °C	ASTM D790	MPa (kg/cm ²)	92(940)
Flexural Modulus 23 °C	ASTM D790	MPa (kg/cm ²)	2513(25650)
Notched Izod Impact Strength 23 °C	ASTM D256	J/m (kg cm/cm)	49(5)
Rockwell Hardness R scale	ASTM D785	g/cc	118
Electrical			
Arc Resistance	ASTM D495	sec	120
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.1
Dielectric Strength	ASTM D149	KV/mm	28

**KOLON PLASTICS, Inc.**