

SABIC Innovative Plastics NORYL CTI2550 PPE+HIPS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

NORYL CTI2550 is a glass/mineral filled material with a Vicat B/120 of 160 °C according ISO 306.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-CTI2550-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	19 g/10 min @Load 10.0 kg, Temperature 280 °C	19 g/10 min @Load 22.0 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	115 MPa	16700 psi	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
Tensile Modulus	8.00 GPa	1160 ksi	1 mm/min; ISO 527
Flexural Strength	105 MPa	15200 psi	2 mm/min; ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1U
	13.0 kJ/m ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	ISO 179/2C
	1.50 J/cm ²	7.14 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature -30.0 Â°C	English @ Temperature -22.0 Â°F	Comments Edgew 80*10*4 sp=62mm; ISO 75/ISO
Taber Abrasion, mg/1000 Cycles	60	60	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	13.9 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	25.0 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Hot Ball Pressure Test	<= 145 Â°C	<= 293 Â°F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	155 Â°C	311 Â°F	Rate B/50; ISO 306
	160 Â°C	320 Â°F	Rate B/120; ISO 306
	165 Â°C	329 Â°F	Rate A/50; ISO 306
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	UL 94
Oxygen Index	35 %	35 %	ISO 4589
Glow Wire Test	960 Â°C @Thickness 2.50 mm	1760 Â°F @Thickness 0.0984 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{15} \text{ ohm}$	$\geq 1.00 \times 10^{15} \text{ ohm}$	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.9	2.9	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0040	0.0040	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.0040	0.0040	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	250 V	250 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	PASSES	IEC 60695-10-2

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