

SABIC Innovative Plastics LNP THERMOCOMP D351 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* D351 (experimental grade name as EXTC8143) is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: High modulus, good flatness, good ductility, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-D351-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.425 g/cc	0.05148 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Melt Flow	25.2 g/10 min @Load 2.16 kg, Temperature 300 Â°C	25.2 g/10 min @Load 4.76 lb, Temperature 572 Â°F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 2.16 kg, Temperature 300 Â°C	20 g/10 min @Load 4.76 lb, Temperature 572 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.04 GPa	1310 ksi	5 mm/min; ASTM D638
	9.08 GPa	1320 ksi	1 mm/min; ISO 527
Flexural Strength	179 MPa	26000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	169 MPa	24500 psi	2 mm/min; ISO 178
Flexural Modulus	7.52 GPa	1090 ksi	2 mm/min; ISO 178
	8.39 GPa	1220 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact Notched Mechanical Properties	1.50 J/cm Metric	2.81 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	5.08 J/cm	9.52 ft-lb/in	ASTM D4812
Charpy Impact Unnotched	3.90 J/cm ²	18.6 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	116 Â°C @Thickness 3.20 mm	241 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94

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