

SABIC Innovative Plastics LNP THERMOCOMP EXTC8141 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* EXTC8141 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-EXTC8141-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm @Time 86400 sec	0.0010 - 0.0025 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 - 0.0025 cm/cm @Time 86400 sec	0.0010 - 0.0025 in/in @Time 24.0 hour	ASTM D955
Melt Index of Compound	11 g/10 min @Load 2.16 kg, Temperature 300 °C	11 g/10 min @Load 4.76 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	143 MPa	20700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.72 GPa	1700 ksi	5 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.75 GPa	1410 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.21 J/cm	9.76 ft-lb/in	ASTM D4812
Charpy Impact Unnotched	3.30 J/cm ²	15.7 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	114 °C	237 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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