

SABIC Innovative Plastics LNP THERMOCOMP DX07350 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan *DX07350 resin is a glass filled, Non-brominated & Non-chlorinated flame retardant polycarbonate. High stiffness and good flow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX07350-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.090 %	0.090 %	ISO 62
Linear Mold Shrinkage, Flow	0.0035 - 0.0045 cm/cm @Thickness 3.20 mm	0.0035 - 0.0045 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	21 g/10 min @Load 2.16 kg, Temperature 280 ^o C	21 g/10 min @Load 4.76 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	5 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D638
	68.0 MPa	9860 psi	5 mm/min; ISO 527
Elongation at Break	4.8 %	4.8 %	5 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.8 %	3.8 %	5 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.70 GPa	682 ksi	5 mm/min; ASTM D638
	4.80 GPa	696 ksi	1 mm/min; ISO 527
Flexural Yield Strength	116 MPa	16800 psi	1.3 mm/min, 50 mm span; ASTM D790
	120 MPa	17400 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	4.60 GPa	667 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*3; ISO 180/1A
	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*3; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*3; ISO 180/1U
	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*3; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	6.10 J/cm ²	29.0 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	0.300 J/cm ²	1.43 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.0 Åµm/m-Å°C	20.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	37.0 Åµm/m-Å°C	20.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	66.0 Åµm/m-Å°C	36.7 Åµin/in-Å°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ASTM E 831 Comments
	66.0 Âµm/m-Â°C	36.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	102 Â°C	216 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	109 Â°C	228 Â°F	Rate B/50; ISO 306
	112 Â°C	234 Â°F	Rate B/120; ISO 306
	112 Â°C	234 Â°F	Rate B/50; ASTM D1525
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Descriptive Properties	Value	Comments
Pencil Hardness test, 0.5 kgf	F	ASTM D3363
Pencil Hardness test, 1kgf	HB	ASTM D3363

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