

SABIC Innovative Plastics LNP THERMOCOMP DX06313 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Polycarbonate base, 30% glass fiber reinforced, impact modified material. Thinwall housing, mobile phone. Some light color grades may have lower impact data than nature and black grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX06313-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.6 g/10 min @Load 1.20 kg, Temperature 300 ^o C	4.6 g/10 min @Load 2.65 lb, Temperature 572 ^o F	ASTM D1238
	42 g/10 min @Load 5.00 kg, Temperature 300 ^o C	42 g/10 min @Load 11.0 lb, Temperature 572 ^o F	ASTM D1238
Melt Index of Compound	32 g/10 min @Load 5.00 kg, Temperature 300 ^o C	32 g/10 min @Load 11.0 lb, Temperature 572 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	5 mm/min; ISO 527
	99.0 MPa	14400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.42 GPa	1080 ksi	1 mm/min; ISO 527
	7.50 GPa	1090 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	170 MPa	24700 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric ^{SI}	English ^{SI}	Comments ISO 178
Flexural Modulus	6.65 GPa	965 ksi	2 mm/min; ISO 178
	7.00 GPa	1020 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	Light & White Colors; ASTM D256
	1.90 J/cm	3.56 ft-lb/in	Natural & Black Colors; ASTM D256
	1.20 J/cm @Temperature -30.0 Â°C	2.25 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	16.0 kJ/mÂ²	7.61 ft-lb/inÂ²	80*10*4; ISO 180/1A
	12.0 kJ/mÂ² @Temperature -30.0 Â°C	5.71 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	24.0 J @Temperature 23.0 Â°C	17.7 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 Âµm/m-Â°C	12.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	22.0 Âµm/m-Â°C	12.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	68.0 Âµm/m-Â°C	37.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	68.0 Âµm/m-Â°C	37.8 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)	136 Â°C	277 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Vicat Softening Point Thermal Properties	142 Â°C Metric	288 Â°F English	Rate B/50; ASTM D1525 Comments
	142 Â°C	288 Â°F	Rate B/50; ISO 306
	143 Â°C	289 Â°F	Rate B/120; ISO 306

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