

SABIC Innovative Plastics LNP THERMOCOMP DX10311 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

DX10311 is 30% glass fiber reinforced, impact modified polycarbonate resin. High flow and good ductility.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX10311-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Index of Compound	37 g/10 min	37 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 300 Â°C	@Load 11.0 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
	119 MPa	17300 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	8.26 GPa	1200 ksi	1 mm/min; ISO 527
	8.33 GPa	1210 ksi	5 mm/min; ASTM D638
Flexural Strength	181 MPa	26300 psi	2 mm/min; ISO 178
	190 MPa	27600 psi	ASTM D790
Flexural Yield Strength	182 MPa	26400 psi	2 mm/min; ISO 178
Flexural Modulus	7.67 GPa	1110 ksi	ASTM D790
	7.72 GPa	1120 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.96 J/cm	3.67 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.52 J/cm	14.1 ft-lb/in	ASTM D4812

Charpy Impact Unnotched Mechanical Properties	5.70 J/cm ² Metric	27.1 ft-lb/in ² English	ISO 179/2C Comments
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Åµm/m-Å°C	10.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	64.0 Åµm/m-Å°C	35.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	128 Å°C	262 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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