

SABIC Innovative Plastics LNP THERMOCOMP 9X02540 PC+PET

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

LNP* THERMOCOMP* PDX-02540 is a compound based on a PET+PC Blend containing Proprietary Filler. Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X02540-PCPET.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.140 %	0.140 %	23 ⁰ C / 50% RH; ISO 62
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	5 mm/min; ISO 527
	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	103 MPa	14900 psi	5 mm/min; ISO 527
	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Elongation at Yield	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	7.24 GPa	1050 ksi	1 mm/min; ISO 527
	7.65 GPa	1110 ksi	50 mm/min; ASTM D638
Flexural Strength	149 MPa	21600 psi	ISO 178
	153 MPa	22200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	149 MPa	21600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.53 GPa	947 ksi	2 mm/min; ISO 178
	7.03 GPa	1020 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	0790 Comments
Izod Impact, Notched	0.510 J/cm	0.955 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.58 J/cm	10.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/mÂ²	18.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	133 Â°C	271 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	130 Â°C @Thickness 3.20 mm	266 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	122 Â°C @Thickness 3.20 mm	252 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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