

SABIC Innovative Plastics LNP Thermocomp WC006 Polyester, TP

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP* Thermocomp* WC006 is a compound based on Polyester, TP resin containing Carbon Fiber. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-WC006-Polyester-TP.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D 792
	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0023 cm/cm	0.0023 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	ASTM D 638
	158 MPa	22900 psi	ISO 527
Tensile Strength, Yield	158 MPa	22900 psi	ASTM D 638
	158 MPa	22900 psi	ISO 527
Elongation at Break	1.2 %	1.2 %	ASTM D 638
	1.2 %	1.2 %	ISO 527
Elongation at Yield	1.2 %	1.2 %	ASTM D 638
	1.2 %	1.2 %	ISO 527
Tensile Modulus	19.99 GPa	2899 ksi	50 mm/min; ASTM D 638
	20.66 GPa	2996 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	206 MPa Metric	29900 psi English	ASTM D 790 Comments
	219 MPa	31800 psi	ISO 178
Flexural Modulus	15.16 GPa	2199 ksi	ASTM D 790
	17.0 GPa	2470 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm @Temperature 23.0 Â°C	0.787 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.64 J/cm @Temperature 23.0 Â°C	8.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ² @Temperature 23.0 Â°C	13.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	37.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	68.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	12.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	6.67 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	12.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	7.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	223 Â°C	433 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	222 Â°C Metric	432 Â°F English	Comments ; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	209 Â°C	408 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	211 Â°C	412 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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