

SABIC Innovative Plastics LNP THERMOCOMP WC006 Polyester, TP (Asia Pacific)

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP* Thermocomp* WC006 is a compound based on Polyester, TP resin containing Carbon Fiber.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
	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 D955
	@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 D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	ASTM D638
	158 MPa	22900 psi	ISO 527
Tensile Strength, Yield	158 MPa	22900 psi	ASTM D638
	158 MPa	22900 psi	ISO 527
Elongation at Break	1.2 %	1.2 %	ASTM D638
	1.2 %	1.2 %	ISO 527
Elongation at Yield	1.2 %	1.2 %	ASTM D638
	1.2 %	1.2 %	ISO 527
Tensile Modulus	19.99 GPa	2899 ksi	50 mm/min; ASTM D638
	20.66 GPa	2996 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	206 MPa Metric	29900 psi English	ASTM D790 Comments
	219 MPa	31800 psi	ISO 178
Flexural Modulus	15.16 GPa	2199 ksi	ASTM D790
	17.0 GPa	2470 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.64 J/cm	8.69 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ²	13.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

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
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648
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 @Thickness 3.20 mm	412 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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