

SABIC Innovative Plastics LNP THERMOCOMP WX05456 Polyester, TP

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP THERMOCOMP* WX05456 is a compound based on Polyester, TP resin containing Mineral.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WX05456-Polyester-TP.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
	1.546 g/cc	0.05585 lb/in ³	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0147 cm/cm	0.0147 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.015 cm/cm	0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0151 cm/cm	0.0151 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527
	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ISO 527
	1.8 %	1.8 %	ASTM D638
Tensile Modulus	4.22 GPa	612 ksi	50 mm/min; ASTM D638
	4.65 GPa	674 ksi	1 mm/min; ISO 527
Flexural Strength	88.0 MPa	12800 psi	ISO 178
	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	4.20 GPa	609 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.97 J/cm	3.69 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	58.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	32.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	58.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	32.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	66.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	66.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	163 $\text{Å}^\circ\text{C}$	325 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	171 $\text{Å}^\circ\text{C}$	340 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 $\text{Å}^\circ\text{C}$	180 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	71.0 $\text{Å}^\circ\text{C}$	160 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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