

SABIC Innovative Plastics LNP THERMOCOMP WH0245A PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP THERMOCOMP* WH0245A is a compound based on Polybutylene Terephthalate resin. Added features of this material include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0245A-PBT.php

Physical Properties	Metric	English	Comments
Density	2.45 g/cc	0.0885 lb/in ³	ASTM D792
	2.45 g/cc	0.0885 lb/in ³	ISO 1183
Moisture Absorption	2.39 %	2.39 %	23 ^o C / 50% RH; ISO 62
	2.40 %	2.40 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	ISO 527
	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	7.72 GPa	1120 ksi	50 mm/min; ASTM D638
	8.47 GPa	1230 ksi	1 mm/min; ISO 527
Flexural Strength	99.0 MPa	14400 psi	ISO 178
	100 MPa	14500 psi	ASTM D790

Flexural Modulus Mechanical Properties	8.33 GPa Metric	1210 ksi English	ISO 178 Comments
	8.39 GPa	1220 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.29 J/cm	4.29 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 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	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	55.6 Åµm/m-Å°C	30.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	55.6 Åµm/m-Å°C	30.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	198 Å°C	388 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	206 Å°C	403 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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