

SABIC Innovative Plastics LNP THERMOCOMP WX02869H Polyester, TP

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP THERMOCOMP* WX02869H is a compound based on Polyester, TP resin containing High Specific Gravity. Added features of this material include: High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WX02869H-Polyester-TP.php

Physical Properties	Metric	English	Comments
Density	4.86 g/cc	0.176 lb/in ³	ASTM D792
	4.87 g/cc	0.176 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0111 cm/cm	0.0111 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
	27.0 MPa	3920 psi	ISO 527
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
	27.0 MPa	3920 psi	ISO 527
Elongation at Break	11.1 %	11.1 %	ISO 527
	23.8 %	23.8 %	ASTM D638
Elongation at Yield	9.4 %	9.4 %	ISO 527
	13 %	13 %	ASTM D638

Tensile Modulus Mechanical Properties	1.78 GPa Metric	258 ksi English	1 mm/min; ISO 527 Comments
	1.82 GPa	264 ksi	50 mm/min; ASTM D638
Flexural Strength	42.0 MPa	6090 psi	ISO 178
	48.0 MPa	6960 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ISO 178
	2.03 GPa	294 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.72 J/cm	25.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	84.0 kJ/m ²	40.0 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	14.0 J	10.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	92.5 Åµm/m-Å°C	51.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	92.5 Åµm/m-Å°C	51.4 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	91.7 Åµm/m-Å°C	50.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	91.8 Åµm/m-Å°C	51.0 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)	57.0 Å°C	135 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	66.0 Å°C	151 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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