

SABIC Innovative Plastics LNP THERMOCOMP RB008 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RB008 is a compound based on Nylon 66 resin containing 40% Glass Bead.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RB008-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Moisture Absorption	1.20 %	1.20 %	50% RH, 24 hrs; ASTM D570
	1.55 %	1.55 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 - 0.021 cm/cm	0.019 - 0.021 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.019 - 0.021 cm/cm	0.019 - 0.021 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ASTM D638
	58.0 MPa	8410 psi	ISO 527
Elongation at Break	2.7 %	2.7 %	ISO 527
	3.3 %	3.3 %	ASTM D638
Tensile Modulus	5.10 GPa	740 ksi	50 mm/min; ASTM D638
	5.43 GPa	788 ksi	1 mm/min; ISO 527
Flexural Strength	102 MPa	14800 psi	ASTM D790
	103 MPa	14900 psi	ISO 178
Flexural Modulus	3.78 GPa	548 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.29 J/cm	4.29 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)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	49.6 Åµm/m-Å°C	27.6 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	55.8 Åµm/m-Å°C	31.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	56.8 Åµm/m-Å°C	31.6 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)	102 Å°C	216 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	68.0 Å°C	154 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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