

SABIC Innovative Plastics LNP THERMOCOMP RB006 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RB006 is a compound based on Nylon 66 resin containing 30% Glass Bead.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RB006-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Moisture Absorption	0.720 %	0.720 %	50% RH, 24 hrs; ASTM D570
	0.720 %	0.720 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
	66.0 MPa	9570 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
	6.5 %	6.5 %	Type I, 5 mm/min; ASTM D638
	7.6 %	7.6 %	5 mm/min; ISO 527
Tensile Modulus	6.81 GPa	988 ksi	50 mm/min; ASTM D638
	7.28 GPa	1060 ksi	1 mm/min; ISO 527
Flexural Strength	87.0 MPa	12600 psi	1.3 mm/min, 50 mm span; ASTM D790
	124 MPa	18000 psi	ASTM D790
Flexural Modulus	3.84 GPa	557 ksi	2 mm/min; ISO 178

Mechanical Properties	4.05 GPa Metric	587 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	4.69 GPa	680 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.90 J/cm	7.31 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	62.8 Åµm/m-Å°C	34.9 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	61.9 Åµm/m-Å°C	34.4 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	101 Å°C	214 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Å°C	203 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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