

SABIC Innovative Plastics LNP THERMOCOMP RF008ESY PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP® RF008ESY is a compound based on Nylon 66 resin containing 40% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF008ESY-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
	1.471 g/cc	0.05314 lb/in ³	ASTM D792
Moisture Absorption	0.770 %	0.770 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0017 cm/cm	0.0017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0105 cm/cm	0.0105 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	168 MPa	24400 psi	ASTM D638
	168 MPa	24400 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.8 %	2.8 %	ISO 527
Tensile Modulus	11.9 GPa	1730 ksi	1 mm/min; ISO 527
	13.03 GPa	1890 ksi	50 mm/min; ASTM D638
Flexural Strength	246 MPa	35700 psi	ASTM D790
	263 MPa	38100 psi	ISO 178
Flexural Modulus	9.10 GPa	1320 ksi	ASTM D790

Mechanical Properties	11.3 GPa Metric	1640 ksi English	ISO 178 Comments
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.89 J/cm	20.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	74.0 kJ/m ²	35.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	251 Â°C @Thickness 3.20 mm	484 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	227 Â°C	441 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	229 Â°C @Thickness 3.20 mm	444 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

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