

SABIC Innovative Plastics LNP THERMOCOMP RF00AH PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF00AH is a compound based on Nylon 66 resin containing Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF00AH-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0037 cm/cm	0.0037 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	166 MPa	24100 psi	ASTM D638
	182 MPa	26400 psi	ISO 527
Elongation at Break	7.8 %	7.8 %	ASTM D638
	8.1 %	8.1 %	ISO 527
Tensile Modulus	17.23 GPa	2499 ksi	50 mm/min; ASTM D638
	17.81 GPa	2583 ksi	1 mm/min; ISO 527
Flexural Strength	262 MPa	38000 psi	ASTM D790
	265 MPa	38400 psi	ISO 178
Flexural Modulus	14.47 GPa	2099 ksi	ASTM D790
	14.9 GPa	2160 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	9.39 J/cm	17.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/mÂ²	5.23 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/mÂ²	28.6 ft-lb/inÂ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	51.0 Âµm/m-Â°C	28.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	52.2 Âµm/m-Â°C	29.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	21.6 Âµm/m-Â°C	12.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	22.0 Âµm/m-Â°C	12.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	252 Â°C	486 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	243 Â°C	469 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	243 Â°C	469 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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