

SABIC Innovative Plastics LNP THERMOCOMP RF006XXZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF006XXZ is a compound based on Nylon 66 resin containing 30% Glass Fiber

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006XXZ-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	0.690 %	0.690 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Modulus	8.98 GPa	1300 ksi	1 mm/min; ISO 527
	10.68 GPa	1549 ksi	50 mm/min; ASTM D638
Flexural Strength	235 MPa	34100 psi	ASTM D790
Flexural Modulus	9.44 GPa	1370 ksi	ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.46 J/cm	12.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Mechanical Properties	Metric	English	Comments
Impact Test		Charpy 10Jb	Modulus Impact, ISO 6603
Coefficient of Friction, Dynamic	0.71	0.71	ASTM D3702 Modified
Coefficient of Friction, Static	0.57	0.57	ASTM D3702 Modified
K (wear) Factor	$151 \times 10^{-8} \text{ mm}^3/\text{N-M}$	$75.0 \times 10^{-10} \text{ in}^3/\text{min/ft-lb-hr}$	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.4 $\mu\text{m}/\text{m-}^\circ\text{C}$	16.9 $\mu\text{in}/\text{in-}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	30.4 $\mu\text{m}/\text{m-}^\circ\text{C}$	16.9 $\mu\text{in}/\text{in-}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	73.2 $\mu\text{m}/\text{m-}^\circ\text{C}$	40.7 $\mu\text{in}/\text{in-}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	73.2 $\mu\text{m}/\text{m-}^\circ\text{C}$	40.7 $\mu\text{in}/\text{in-}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	265 $^\circ\text{C}$	509 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	243 $^\circ\text{C}$	469 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 $^\circ\text{C}$	491 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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