

SABIC Innovative Plastics LNP THERMOCOMP RX99732C PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* PDX-R-99732 is a Nylon 6/6 with proprietary fillers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX99732C-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Moisture Absorption	0.590 %	0.590 %	50% RH, 24 hrs; ASTM D570
	0.810 %	0.810 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	186 MPa	27000 psi	Type I, 5 mm/min; ASTM D638
	186 MPa	27000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	186 MPa	27000 psi	Type I, 5 mm/min; ASTM D638
	186 MPa	27000 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	14.01 GPa	2032 ksi	1 mm/min; ISO 527
	15.18 GPa	2202 ksi	50 mm/min; ASTM D638
Flexural Strength	250 MPa	36300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	253 MPa	36700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.2 GPa	1480 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.45 J/cm	2.72 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.9 J/cm	24.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 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	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	12.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	51.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	28.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	253 Â°C	487 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 Â°C @Thickness 3.20 mm	486 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	234 Â°C	453 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	234 Â°C @Thickness 3.20 mm	453 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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