

SABIC Innovative Plastics LNP Thermocomp RW008XXZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RW008XXZ is a compound based on Nylon 6/6 resin containing Wollastonite. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RW008XXZ-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
	1.53 g/cc	0.0553 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.86 %	0.86 %	23 ^o C / 50% RH; ISO 62
	0.61 % @Time 86400 sec	0.61 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.0 MPa	11200 psi	Type I, 5 mm/min; ASTM D 638
	77.0 MPa	11200 psi	5 mm/min; ISO 527
Elongation at Break	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D 638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	6.00 GPa	870 ksi	1 mm/min; ISO 527
	6.81 GPa	988 ksi	50 mm/min; ASTM D 638
Flexural Strength	122 MPa	17700 psi	1.3 mm/min, 50 mm span; ASTM D 790
	123 MPa	17800 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	2 mm/min; ISO 178
	5.88 GPa	853 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	0.310 J/cm	0.581 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	4.00 J/cm @Temperature 23.0 °C	7.49 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ² @Temperature 23.0 °C	11.4 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J @Temperature 23.0 °C	4.43 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.3 µm/m-°C @Temperature -30.0 - 30.0 °C	31.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
CTE, linear, Transverse to Flow	70.9 µm/m-°C @Temperature -30.0 - 30.0 °C	39.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	229 °C	444 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	242 °C @Thickness 3.20 mm	468 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	143 °C @Thickness 3.20 mm	289 °F @Thickness 0.126 in	unannealed; ASTM D 648

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