

SABIC Innovative Plastics LNP Thermocomp RX06324 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

This material is Mineral filled Nylon grade with high dielectric constant This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RX06324-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	2.19 g/cc	0.0791 lb/in ³	ASTM D 792
	2.19 g/cc	0.0791 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0128 cm/cm	0.0128 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0108 cm/cm	0.0108 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	17 g/10 min	17 g/10 min	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	@Load 1.20 kg, Temperature 270 Â°C	@Load 2.65 lb, Temperature 518 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D 638
	74.0 MPa	10700 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	5.12 GPa	743 ksi	50 mm/min; ASTM D 638
	5.23 GPa	759 ksi	1 mm/min; ISO 527
Flexural Strength	120 MPa	17400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	120 MPa	17400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	4.44 GPa	644 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	5.01 GPa	727 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	ASTM D 256
Izod Impact, Unnotched	3.52 J/cm @Temperature 23.0 Å°C	6.59 ft-lb/in @Temperature 73.4 Å°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÅ² @Temperature 23.0 Å°C	1.90 ft-lb/inÅ² @Temperature 73.4 Å°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/mÅ² @Temperature 23.0 Å°C	10.9 ft-lb/inÅ² @Temperature 73.4 Å°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Å°C	201 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Å°C @Thickness 3.20 mm	203 Å°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.9 @Frequency 9.00e+8 Hz	7.9 @Frequency 9.00e+8 Hz	ASTM D 2520 - Mth B
Dissipation Factor	0.011 @Frequency 9.00e+8 Hz	0.011 @Frequency 9.00e+8 Hz	ASTM D 150

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