

SABIC Innovative Plastics LNP COLORCOMP R1000 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* COLORCOMP* R1000 is an unfilled Nylon 66.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-R1000-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	79.0 MPa	11500 psi	5 mm/min; ISO 527
Elongation at Break	45 %	45 %	5 mm/min; ISO 527
Elongation at Yield	11 %	11 %	5 mm/min; ISO 527
Tensile Modulus	2.99 GPa	434 ksi	1 mm/min; ISO 527
Flexural Strength	33.0 MPa	4790 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	140 kJ/m ²	66.6 ft-lb/in ²	80*10*4; ISO 180/1A
Charpy Impact, Notched	16.5 J/cm ²	78.5 ft-lb/in ²	ISO 179/2C
	13.9 J/cm ²	66.1 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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