

SABIC Innovative Plastics LNP THERMOCOMP RC003 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

15% carbon fibre reinforced Polyamide 66 injection moulding resin.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC003-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Water Absorption at Saturation	5.5 %	5.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	105	105	ISO 2039-2
Tensile Strength at Break	170 MPa	24700 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	13.0 GPa	1890 ksi	1 mm/min; ISO 527
Flexural Strength	230 MPa	33400 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	

Thermal Properties CTE, linear, Transverse to Flow	110 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ Metric	61.1 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ English	Comments ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	252 $\text{Å}^\circ\text{C}$	486 $\text{Å}^\circ\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	UL 94 by SABIC-IP
Oxygen Index	28 %	28 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	178000 ohm-cm	178000 ohm-cm	IEC 60093
Surface Resistance	178000 ohm	178000 ohm	ROA; IEC 60093

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