

SABIC Innovative Plastics LNP THERMOCOMP RC006 PA6.6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RC006 is a compound based on PA6.6 resin containing Carbon Fiber. Added features include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC006-PA66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Water Absorption at Saturation	4.5 %	4.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.00040 - 0.00080 cm/cm	0.00040 - 0.00080 in/in	on Tensile Bar; SABIC Method
	0.00050 - 0.010 cm/cm	0.00050 - 0.010 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ISO 2039-2
Tensile Strength at Break	250 MPa	36300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	261 MPa	37900 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	22.0 GPa	3190 ksi	1 mm/min; ISO 527
Flexural Strength	360 MPa	52200 psi	2 mm/min; ISO 178
Flexural Yield Strength	360 MPa	52200 psi	2 mm/min; ISO 178
Flexural Modulus	18.9 GPa	2740 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -20.0	@Temperature -4.00	

Mechanical Properties	°C Metric	°F English	Comments
Izod Impact, Unnotched (ISO)	65.0 kJ/m ^Å ²	30.9 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Charpy Impact Unnotched	7.00 J/cm ^Å ²	33.3 ft-lb/in ^Å ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.00 Åµm/m-Å°C	4.44 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	86.0 Åµm/m-Å°C	47.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C	500 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	261 Å°C	502 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	252 Å°C	486 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	257 Å°C	495 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Åe
Vicat Softening Point	255 Å°C	491 Å°F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	27 %	27 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	4320 ohm-cm	4320 ohm-cm	IEC 60093
Surface Resistance	4320 ohm	4320 ohm	ROA; IEC 60093
	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China