

SABIC Innovative Plastics LNP Thermocomp RF006XXP PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

30% glass fibre reinforced Polyamide 66 injection moulding resin. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RF006XXP-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	4.5 % @Temperature 23.0 ^o C	4.5 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	on tensile bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	113	113	ISO 2039-2
Tensile Strength at Break	175 MPa	25400 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	1 mm/min; ISO 527
Flexural Strength	265 MPa	38400 psi	2 mm/min; ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature -30.0 ^o C	3.81 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature -40.0 ^o C	3.81 ft-lb/in ² @Temperature -40.0 ^o F	80*10*4; ISO 180/1A
	9.00 kJ/m ² @Temperature -20.0 ^o C	4.28 ft-lb/in ² @Temperature -4.00 ^o F	80*10*4; ISO 180/1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Charpy Impact Unnotched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	7.50 J/cmÂ²	35.7 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
CTE, linear, Transverse to Flow	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	248 Â°C	478 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	255 Â°C	491 Â°F	Rate B/120; ISO 306
	258 Â°C	496 Â°F	Rate B/50; ISO 306
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	2nd value; UL 94

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
Flame Spread	2.00 mm/min	0.0787 in/min	FMVSS 302
	6.00 mm/min	0.236 in/min	FMVSS 302
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	25 %	25 %	LOI; ISO 4589
Glow Wire Test	650 Â°C	1200 Â°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ROA; IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0068	0.0068	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	>= 400 V	>= 400 V	IEC 60112
	500 V	500 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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