

SABIC Innovative Plastics LNP Thermocomp RF00AES PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF00AES is a compound based on PA66 resin containing Glass Fiber, Mold Release. 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-RF00AES-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.85 %	0.85 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	2.75 % @Temperature 23.0 ^o C	2.75 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	on tensile bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	114	114	ISO 2039-2
Tensile Strength at Break	210 MPa	30500 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	16.0 GPa	2320 ksi	1 mm/min; ISO 527
Flexural Strength	310 MPa	45000 psi	2 mm/min; ISO 178
Flexural Modulus	15.0 GPa	2180 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 ^o C	5.23 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
	11.0 kJ/m ² @Temperature -40.0 ^o C	5.23 ft-lb/in ² @Temperature -40.0 ^o F	80*10*4; ISO 180/1A
	12.0 kJ/m ² @Temperature -20.0 ^o C	5.71 ft-lb/in ² @Temperature -4.00 ^o F	80*10*4; ISO 180/1A
	13.0 kJ/m ²	6.19 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
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ²	21.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	55.0 kJ/mÂ²	26.2 ft-lb/inÂ²	80*10*4; ISO 180/1U
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 Âµm/m-Â°C	6.67 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	136 Âµm/m-Â°C	75.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	235 Â°C	455 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	230 Â°C	446 Â°F	Rate B/50; ISO 306
	232 Â°C	450 Â°F	Rate B/120; ISO 306
	240 Â°C	464 Â°F	Rate A/50; ISO 306
Flammability, UL94	HB	HB	UL 94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	2nd value; UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	27 %	27 %	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	

Electrical Properties	^{3,4} Metric	^{3,4} English	Comments IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	19.0 kV/mm @Thickness 3.20 mm	483 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0068 @Frequency 50.0 - 60.0 Hz	0.0068 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	>= 350 V	>= 350 V	IEC 60112
	500 V	500 V	IEC 60112

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

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