

SABIC Innovative Plastics LNP Thermocomp RF0057E PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF0057E is a compound based on Nylon 66 resin containing Glass Fiber, Flame Retardant. Added features of this material include: Non-Brominated & Non-Chlorinated Flame Retardant. 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-RF0057E-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Water Absorption	2.64 % @Temperature 23.0 °C, Time 86400 sec	2.64 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm @Time 86400 sec	0.0015 - 0.0025 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm @Time 86400 sec	0.010 - 0.012 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	9.40 GPa	1360 ksi	1 mm/min; ISO 527
Flexural Yield Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	<= 240 Â°C	<= 464 Â°F	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	240 Â°C	464 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
UL RTI, Electrical	140 Â°C	284 Â°F	UL 746B
UL RTI, Mechanical with Impact	110 Â°C	230 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	5VA	5VA	UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	775 Â°C	1430 Â°F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	775 Â°C	1430 Â°F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	775 Â°C	1430 Â°F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	825 Â°C	1520 Â°F	Glow Wire Ignitability Temperature; IEC 60695-2-13
@Thickness 3.00 mm	@Thickness 0.118 in		
	960 Â°C	1760 Â°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D 257
Dielectric Strength	16.0 kV/mm	406 kV/in	in air; ASTM D 149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Comparative Tracking Index	600 V	600 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	PLC code 0; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A

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