SABIC Innovative Plastics LNP Thermocomp RF0057E PA 66 (Asia Pacific)

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 Asia Pacific region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RF0057E-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/inÂ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 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/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ² @Temperature 23.0 Â°C	21.4 ft-lb/inÂ² @Temperature 73.4 Â°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
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.400 mm	@Thickness 0.0157 in	UL 94
	5VA @Thickness 1.60 mm	5VA @Thickness 0.0630 in	UL 94
Glow Wire Test	775 Â°C @Thickness 0.400 mm	1430 Â°F @Thickness 0.0157 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	775 Â°C @Thickness 1.00 mm	1430 Â°F @Thickness 0.0394 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	775 Â°C @Thickness 1.50 mm	1430 Â°F @Thickness 0.0591 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	825 Â°C @Thickness 3.00 mm	1520 Â°F @Thickness 0.118 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	960 Â°C @Thickness 0.400 mm	1760 Â°F @Thickness 0.0157 in	Glow Wire Flammability Index; IEC 60695-2-12

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 @Thickness 1.60 mm	406 kV/in @Thickness 0.0630 in	in air; ASTM D 149
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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