

SABIC Innovative Plastics LNP THERMOCOMP Noryl_HM4025 PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

LNP* Thermocomp* Noryl_HM4025 compound is a 40% Glass/Mineral filled high modulus grade. DTUL 255F (124C). UL94 V-0/V-1/5VA rated in black and gray only (see thicknesses).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NorylHM4025-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	127 MPa	18400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	158 MPa	22900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	2.6 mm/min, 100 mm span; ASTM D790
Poissons Ratio	0.38	0.38	ASTM E 132
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Coefficient of Friction, Static	0.42	0.42	steel; ASTM D1894
	0.44	0.44	self; ASTM D1894
Taber Abrasion, mg/1000 Cycles	35	35	CS-17, 1 kg; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 95.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 203 $\text{Å}^\circ\text{F}$	
	32.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	18.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	

CTE, linear, Transverse to Flow Thermal Properties	Metric @ Temperature -40.0 - 95.0 Â°C	English @ Temperature -40.0 - 203 Â°F	ASTM E 831 Comments
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C @Thickness 6.40 mm	253 Â°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	V-1 @Thickness 1.47 mm	V-1 @Thickness 0.0579 in	UL 94
	V-0 @Thickness 2.99 mm	V-0 @Thickness 0.118 in	UL 94
	5VA @Thickness 2.51 mm	5VA @Thickness 0.0988 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	ASTM D257
Dielectric Strength	25.0 kV/mm @Thickness 1.60 mm	635 kV/in @Thickness 0.0630 in	in air; ASTM D149
	Arc Resistance	120 - 180 sec	120 - 180 sec
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

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