

## SABIC Innovative Plastics LNP THERMOCOMP Noryl\_HM3020 PPE+PS

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

### Material Notes:

LNP\* Thermocomp\* Noryl\_HM3020 compound is a 30% Glass/Mineral filled, high modulus grade. DTUL 248F (120C). UL94 V-1/5VA rated in black and gray.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NorylHM3020-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NorylHM3020-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 cm/cm @Thickness 3.20 mm	0.0025 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ASTM D785
Tensile Strength at Break	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	144 MPa	20900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	2.6 mm/min, 100 mm span; ASTM D790
Poissons Ratio	0.38	0.38	ASTM E 132
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Coefficient of Friction, Static	0.40	0.40	steel; ASTM D1894
	0.42	0.42	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	23.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 95.0 $\text{Å}^\circ\text{C}$	13.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 203 $\text{Å}^\circ\text{F}$	ASTM E 831
	34.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	19.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	

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)	120 Â°C @Thickness 6.40 mm	248 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
	5VA @Thickness 2.59 mm	5VA @Thickness 0.102 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	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
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	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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