

SABIC Innovative Plastics LNP STAT-KON Noryl_HMC1010 PPE+HIPS (Europe-Africa-Middle East)

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

Material Notes:

LNP* Stat-kon* HMC1010 compound is a 10% Carbon fiber reinforced. Static dissipative. Nonbrominated, nonchlorinated flame retardant system. UL94 V-1 rated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-NorylHMC1010-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0015 cm/cm @Thickness 3.20 mm	0.00050 - 0.0015 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0015 - 0.0030 cm/cm @Thickness 3.20 mm	0.0015 - 0.0030 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength at Break	71.0 MPa	10300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	79.0 MPa	11500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.40 J/cm	4.50 ft-lb/in	ASTM D4812
Taber Abrasion, mg/1000 Cycles	83	83	CS-17, 1 kg; ASTM D1044

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	111 Å°C @Thickness 6.40 mm	232 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	105 Å°C	221 Å°F	

Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	unannealed; ASTM D648 Comments
UL RTI, Electrical	50.0 Å°C	122 Å°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Å°C	122 Å°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	UL 746B
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8000 ohm-cm	8000 ohm-cm	ASTM D257
Surface Resistance	13000 ohm	13000 ohm	ASTM D257
Static Decay	0.010 sec	0.010 sec	5000V to <50V; FTMS101B

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