

SABIC Innovative Plastics LNP STAT-KON Noryl_FMC1010 PPE+HIPS (Europe-Africa-Middle East)

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

Material Notes:

LNP* Stat-kon* Noryl_FMC1010 compound is a 10% carbon fiber, static dissipative, foamable resin Nonchlorinated, nonbrominated. UL94 V1 rated. Property values at 20% WR, 0.250" wall.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-NorylFMC1010-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	foam molded; ASTM D792
	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Break	4.1 %	4.1 %	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Flexural Yield Strength	95.0 MPa	13800 psi	6.4 mm; ASTM D790
Flexural Modulus	5.99 GPa	869 ksi	6.4 mm; ASTM D790
Izod Impact, Unnotched	1.54 J/cm	2.89 ft-lb/in	ASTM D4812
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical			UL 746B

Thermal Properties	50.0 °C Metric	122 °F English	Comments
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
Flammability, UL94	V-1 @Thickness 3.98 mm	V-1 @Thickness 0.157 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	8000 ohm-cm	8000 ohm-cm	ASTM D257
Surface Resistance	13000 ohm	13000 ohm	ASTM D257

Descriptive Properties	Value	Comments
FOAM - ELECTRICAL 6.4 mm Wt Reduction	20%	
FOAM - Flame Class Minimum Density	0.96g/cm ³	
FOAM - IMPACT 6.4 mm Wt Reduction	20%	
FOAM - MECHANICAL 6.4 mm Wt Reduction	20%	
FOAM - PHYSICAL 6.4mm Wt Reduction	20%	
FOAM - THERMAL 6.4mm Wt Reduction	20%	

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