

LNP™ STAT-KON™ Noryl_HMC1010

compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP STAT-KON NORYL_HMC1010 compound is a 10% Carbon fiber reinforced. Static dissipative. Nonbrominated, nonchlor- nated flame retardant system. UL94 V-1 rated.

General Information			
UL YellowCard	E121562-221166		
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
Processing Method	Injection Molding		
Multi-Point Data	Specific Heat vs. Temperature (ASTM D3417)		
	Tensile Creep (ASTM D2990)		
	Tensile Fatigue		
	Tensile Stress vs. Strain (ASTM D638)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.050 to 0.15	%	
Across Flow : 3.20 mm	0.15 to 0.30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	79.3	MPa	
Break	71.0	MPa	
Tensile Elongation ² (Break)	3.0	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	6890	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	103	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	83.0	mg	ASTM D1044

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	240	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	111	°C	
1.8 MPa, Unannealed, 6.40 mm	105	°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.3E+4	ohms	ASTM D257
Volume Resistivity	8.0E+3	ohms · cm	ASTM D257
Static Decay ⁵	10	msec	FTMS 101B
Flammability	Nominal Value	Unit	Test Method

V-1

Flame Rating (2.01 mm)

5VA

UL 94

Injection	Nominal Value	Unit
Drying Temperature	87.8 to 93.3	°C
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	30 to 70	%
Rear Temperature	221 to 271	°C
Middle Temperature	232 to 277	°C
Front Temperature	243 to 282	°C
Nozzle Temperature	254 to 282	°C
Processing (Melt) Temp	254 to 282	°C
Mold Temperature	65.6 to 87.8	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	20 to 100	rpm
Vent Depth	0.038 to 0.051	mm

NOTE

1. Type I, 5.0 mm/min
2. Type I, 5.0 mm/min
3. 2.6 mm/min
4. 2.6 mm/min
5. 5000V to <50V

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

