

LNP™ STAT-KON™ Noryl_NC2525 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP STAT-KON NORYL_NC2525 compound is a 25% CFR PPE+PS. Highly conductive. High heat. May be added to similar material/regrind to add some conductivity to the blend.

General Information			
Filler / Reinforcement	Carbon Fiber,25% Filler by Weight		
Features	Conductive		
	High Heat Resistance		
Processing Method	Injection Molding		
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)		
	Flexural DMA (ASTM D4065)		
	Pressure-Volume-Temperature (PVT - Zoller Method)		
	Shear DMA (ASTM D4065)		
	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
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.40 to 0.60	%	
Across Flow : 3.20 mm	0.45 to 0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	20700	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	107	MPa	
Break	107	MPa	
Tensile Elongation ³			ASTM D638
Yield	2.5	%	
Break	2.5	%	
Flexural Modulus ⁴ (50.0 mm Span)	15900	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	148	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256

Unnotched Izod Impact (23°C)	180	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	9.04	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	178	°C	
1.8 MPa, Unannealed, 3.20 mm	171	°C	
Vicat Softening Temperature	179	°C	ASTM D1525 ⁶
CLTE			ASTM E831
Flow : -40 to 40°C	1.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Volume Resistivity	0.30	ohms·cm	ASTM D257
Static Decay ⁷	10	msec	FTMS 101B
Injection	Nominal Value	Unit	
Drying Temperature	110 to 121	°C	
Drying Time	2.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	30 to 70	%	
Rear Temperature	293 to 321	°C	
Middle Temperature	299 to 327	°C	
Front Temperature	299 to 335	°C	
Nozzle Temperature	304 to 335	°C	
Processing (Melt) Temp	304 to 335	°C	
Mold Temperature	93.3 to 132	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 100	rpm	
Vent Depth	0.038 to 0.051	mm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	Rate B (120°C/h), Loading 2 (50 N)		
7.	5000V to <50V		

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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

