

LNP™ STAT-KON™ Noryl_NC2525 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics Europe

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		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
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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