

LNP™ STAT-KON™ RFD03 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON RFD03 is a compound based on Nylon 66 containing 15% Glass Fiber. Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound STATKON-RF-15

Product reorder name: RFD03

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.64	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	88.0	MPa	ISO 527-2/5
Fracture	88.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	1.5	%	ISO 527-2/5
Fracture	1.5	%	ISO 527-2/5
Flexural Modulus ¹	6600	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Flexural Strain at Break ²	2.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	17	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	256	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	240	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	3.6E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.15 - 0.25	%
Rear Temperature	266 - 277	°C
Middle Temperature	282 - 293	°C
Front Temperature	293 - 304	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	93.3 - 110	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

1. 2.0 mm/min
2. 2 mm/min
3. 80*10*4
4. 80*10*4
5. 80*10*4 mm

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