LNP™ STAT-KON™ REP349 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON REP349 is a compound based on Nylon 66 resin containing PTFE, Carbon Fiber. Added features of this material include: Electrically Conductive, Internally Lubricated.
Also known as: LNP* STAT-KON* Compound RCL-4534 FR
Product reorder name: REP349

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity Lubrication		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.54	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.67	%	ISO 294-4
Flow direction: 24 hours	0.18	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.40	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	19300	MPa	ASTM D638
--	18200	MPa	ISO 527-2/1
Tensile Strength			ASTM D638, ISO 527-2
Yield	168	MPa	ASTM D638, ISO 527-2
Fracture	168	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Yield	1.8	%	ASTM D638, ISO 527-2
Fracture	1.8	%	ASTM D638
Fracture	1.7	%	ISO 527-2
Flexural Modulus			
--	15200	MPa	ASTM D790
--	15300	MPa	ISO 178
Flexural Strength			
--	255	MPa	ASTM D790
--	263	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C [2]	5.8	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	580	J/m	ASTM D4812
23°C [3]	35	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.60	J	ASTM D3763
--	2.10	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	250	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	251	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	233	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	234	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	3.5E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	1.3E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	1.2E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+7 - 1.0E+9	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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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