LNP™ STAT-KON™ REL42 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON REL42 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-4042
Product reorder name: REL42

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	1.32	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30 - 0.50	%	ASTM D955
Transverse flow: 24 hours	1.1 - 1.3	%	ASTM D955
Vertical flow direction: 24 hours	1.2	%	ISO 294-4
Flow direction: 24 hours	0.36	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.60	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	8270	MPa	ASTM D638
--	8690	MPa	ISO 527-2/1
Tensile Strength			
Yield	132	MPa	ASTM D638
Yield	133	MPa	ISO 527-2
Fracture	132	MPa	ASTM D638
Fracture	133	MPa	ISO 527-2
Tensile Elongation			
Yield	2.5	%	ASTM D638
Yield	2.3	%	ISO 527-2
Fracture	2.5	%	ASTM D638
Fracture	2.3	%	ISO 527-2
Flexural Modulus			
--	14500	MPa	ASTM D790
--	7400	MPa	ISO 178

Flexural Strength	186	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C [2]	4.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C [3]	30	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.30	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	260	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	258	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	247	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	242	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 - 1.0E+6	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		

Recommended distributors for this material

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