

LNP™ STAT-KON™ REL42 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON REL42 is a compound based on Nylon 66 resin containing 20% PTFE, 10% 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,10% Filler by Weight		
Additive	PTFE Lubricant (20%)		
Features	Electrically Conductive		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30 to 0.50	%	ASTM D955
Across Flow : 24 hr	1.1 to 1.3	%	ASTM D955
Across Flow : 24 hr	1.2	%	ISO 294-4
Flow : 24 hr	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
Break	132	MPa	ASTM D638
Break	133	MPa	ISO 527-2
Tensile Elongation			
Yield	2.5	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	2.5	%	ASTM D638
Break	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/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	30	kJ/m ²	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, 3.20 mm	260	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	258	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	247	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	242	°C	ISO 75-2/af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.9E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 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 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 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		

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