

LNP™ STAT-KON™ RX05488 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP STAT-KON* RX05488 is a compound based on Nylon 66 resin containing Carbon Fiber, Glass Fiber, PTFE. Added features of this material include: Electrically Conductive, Flame Retardant.
Also known as: LNP* STAT-KON* Compound RCFL-4036 FR
Product reorder name: RX05488

General Information			
UL YellowCard	E121562-101282847		
Filler / Reinforcement	Carbon Fiber		
	Glass Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive		
	Flame Retardant		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.67	%	ISO 294-4
Flow : 24 hr	0.24	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.32	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.47	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	24600	MPa	ASTM D638
--	18700	MPa	ISO 527-2/1
Tensile Strength			
Break	169	MPa	ASTM D638
Break	176	MPa	ISO 527-2
Tensile Elongation			
Break	1.6	%	ASTM D638
Break	1.8	%	ISO 527-2
Flexural Modulus			

--	14500	MPa	ASTM D790
--	17600	MPa	ISO 178
Flexural Strength			
--	256	MPa	ASTM D790
--	271	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	650	J/m	ASTM D4812
23°C ³	44	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.80	J	ASTM D3763
--	3.38	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	242	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	> 240	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
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		

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