

LNP™ STAT-KON™ EX11402 compound

Polyether Imide
SABIC Innovative Plastics

Message:

LNP STAT-KON EX11402 is a compound based on Polyetherimide resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound EX11402
Product reorder name: EX11402

General Information			
UL YellowCard	E121562-102047201		
Filler / Reinforcement	Proprietary packing		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.30	g/cm ³	ASTM D792
--	1.29	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.30 - 0.50	%	ASTM D955
Transverse flow: 24 hours	0.50 - 0.70	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.35	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3840	MPa	ASTM D638
--	3730	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	74.0	MPa	ASTM D638
Fracture	85.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	2.3	%	ASTM D638
Fracture	2.8	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	4000	MPa	ASTM D790
-- ⁵	3680	MPa	ISO 178
Flexural Stress			
--	159	MPa	ISO 178
Fracture, 50.0mm span ⁶	132	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	16	J/m	ASTM D256
23°C ⁷	2.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ⁸	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.24	J	ASTM D3763
--	1.12	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	205	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁹	203	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	201	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	192	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	4.4E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	4.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+5	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	
Front Temperature	366 - 377	°C	
Processing (Melt) Temp	360 - 366	°C	
Mold Temperature	121 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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Recommended distributors for this material

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