

LNP™ STAT-KON™ EX12406C compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP STAT-KON EX12406C is a compound based on Polyetherimide resin containing Electrically Conductive Fillers.

Also known as: LNP* STAT-KON* Compound EX12406C

Product reorder name: EX12406C

General Information			
UL YellowCard	E121562-101990083		
Filler / Reinforcement	Filler		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	0.50 - 0.70	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3510	MPa	ASTM D638
Tensile Strength ² (Break)	90.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.8	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	3580	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	154	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	35	J/m	ASTM D256
Unnotched Izod Impact (23°C)	470	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	192	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow: -30 to 150°C	3.8E-5	cm/cm/°C	ASTM E831
Lateral: -30 to 150°C	4.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 1.0E+8	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	120 - 150	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	

Rear Temperature	370 - 400	°C
Middle Temperature	370 - 400	°C
Front Temperature	370 - 400	°C
Mold Temperature	150 - 165	°C
Back Pressure	0.300 - 0.700	MPa
Screw Speed	50 - 100	rpm

Injection instructions

Injection Speed: 40 - 70 mm/s

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.	1.3 mm/min

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