

LNP™ STAT-KON™ EX99689C compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP STAT-KON EX99689C is a compound based on Polyetherimide resin containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-E-99689 CCS

Product reorder name: EX99689C

General Information			
UL YellowCard	E121562-101345282		
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
	Low (to None) Ion Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.36	%	ISO 294-4
Flow : 24 hr	0.17	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.30	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11700	MPa	ASTM D638
--	12600	MPa	ISO 527-2/1
Tensile Strength			
Break	161	MPa	ASTM D638
Break	137	MPa	ISO 527-2
Tensile Elongation			
Break	1.6	%	ASTM D638
Break	1.2	%	ISO 527-2
Flexural Modulus			
50.0 mm Span ²	8000	MPa	ASTM D790
-- ³	7700	MPa	ISO 178
Flexural Strength			
--	242	MPa	ASTM D790

--	216	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ⁴	5.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C ⁵	28	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.4	J	ASTM D3763
--	2.41	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	206	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁶	207	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.3E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.3E-5	cm/cm/°C	
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 (0.350 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		
3.	2.0 mm/min		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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