

LNP™ STAT-KON™ LX00486C compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP* STAT-KON* LX00486C is a compound based on Polyetheretherketone containing proprietary fillers. Added features of this grade includes: Clean Compound System, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-L-00486 CCS

Product reorder name: LX00486C

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
	Low (to None) Ion Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.25	%	
Across Flow : 24 hr	1.3	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	17300	MPa	ASTM D638
--	16300	MPa	ISO 527-2/1
Tensile Strength			
Break ²	179	MPa	ASTM D638
Break	177	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.0	%	ASTM D638
Break	2.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	13600	MPa	ASTM D790
-- ⁵	13500	MPa	ISO 178
Flexural Stress			
--	255	MPa	ISO 178
Break, 50.0 mm Span ⁶	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	63	J/m	ASTM D256
23°C ⁷	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	660	J/m	ASTM D4812
23°C ⁸	40	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.80	J	ASTM D3763
--	2.34	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	336	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	330	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	315	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	291	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+7	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 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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