

LNP™ STAT-LOY™ 9X05426C compound

Polymethyl Methacrylate Acrylic

SABIC Innovative Plastics

Message:

LNP STAT-KON 9X05426C is a compound based on PMMA resin containing Anti-Static. Added features of this material include: Antistat.
Also known as: LNP* STAT-LOY* Compound PDX-05426 CCS BL5-343-2 TP
Product reorder name: 9X05426C

General Information			
Additive	Antistatic		
Features	Antistatic		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	1.0	%	ASTM D955
Across Flow : 24 hr	0.98	%	ISO 294-4
Flow : 24 hr	0.82	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1750	MPa	ASTM D638
--	1480	MPa	ISO 527-2/1
Tensile Strength			
Yield	42.7	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2
Break	40.7	MPa	ASTM D638
Break	39.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.7	%	ASTM D638
Yield	6.2	%	ISO 527-2
Break	18	%	ASTM D638
Break	20	%	ISO 527-2
Flexural Modulus			
--	1660	MPa	ASTM D790
--	1410	MPa	ISO 178
Flexural Strength			
--	55.2	MPa	ASTM D790
--	44.8	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	32	J/m	ASTM D256
23°C ²	4.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	540	J/m	ASTM D4812
23°C ³	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	2.85	J	ASTM D3763
--	0.772	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	79.4	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	79.5	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	67.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	70.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.0E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9 to 1.0E+11	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	76.0 to 88.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	215 to 238	°C	
Middle Temperature	215 to 238	°C	
Front Temperature	215 to 238	°C	
Nozzle Temperature	215 to 238	°C	
Mold Temperature	23.0 to 88.0	°C	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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