

LNP™ STAT-KON™ ZE0039 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP STAT-KON ZE0039 is a compound based on PPO resin containing 15% Carbon Fiber. Added features of this grade includes: Flame Retardant, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound ZC-1003 FR

Product reorder name: ZE0039

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Electrically Conductive		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.21	g/cm ³	ASTM D792
--	1.20	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.20	%	ASTM D955
Across Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.30	%	ISO 294-4
Flow : 24 hr	0.086	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11700	MPa	ASTM D638
--	11000	MPa	ISO 527-2/1
Tensile Strength			
Yield	112	MPa	ASTM D638
Yield	105	MPa	ISO 527-2
Break	112	MPa	ASTM D638
Break	105	MPa	ISO 527-2
Tensile Elongation			
Yield	1.2	%	ASTM D638
Yield	1.1	%	ISO 527-2
Break	1.2	%	ASTM D638
Break	1.1	%	ISO 527-2
Flexural Modulus			
--	8960	MPa	ASTM D790

--	10600	MPa	ISO 178
Flexural Strength			
--	117	MPa	ASTM D790
--	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C ³	18	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	11.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	112	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	113	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	104	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	106	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 to 288	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	299 to 310	°C	
Processing (Melt) Temp	299 to 304	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
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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