

LNP™ STAT-KON™ ZE004 compound

Polyphenylene

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON ZE004 is a compound based on MODIFIED POYPHENYLENE resin containing Carbon Fiber.
Also known as: LNP* STAT-KON* Compound ZC-1004
Product reorder name: ZE004

General Information			
Filler / Reinforcement	Carbon Fiber		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.53	%	ISO 294-4
Flow : 24 hr	0.30	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	24800	MPa	ASTM D638
--	14700	MPa	ISO 527-2/1
Tensile Strength			
Yield	80.7	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2
Break	104	MPa	ASTM D638
Break	103	MPa	ISO 527-2
Tensile Elongation			
Break	0.50	%	ASTM D638
Break	0.96	%	ISO 527-2
Flexural Modulus			
--	24100	MPa	ASTM D790
--	12700	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	151	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ²	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	300	J/m	ASTM D4812
23°C ³	18	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	139	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	141	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	135	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.8E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	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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