

LNP™ STAT-KON™ ZE0039 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP STAT-KON ZE0039 is a compound based on MODIFIED POYPHENYLENE resin containing Carbon Fiber.

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

Product reorder name: ZE0039

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
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 hours	0.10 - 0.20	%	ASTM D955
Transverse flow: 24 hours	0.20 - 0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.30	%	ISO 294-4
Flow direction: 24 hours	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
Fracture	112	MPa	ASTM D638
Fracture	105	MPa	ISO 527-2
Tensile Elongation			
Yield	1.2	%	ASTM D638
Yield	1.1	%	ISO 527-2
Fracture	1.2	%	ASTM D638
Fracture	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, 3.20mm	112	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	113	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	104	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	106	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 - 288	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	299 - 310	°C	
Processing (Melt) Temp	299 - 304	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

