

LNP™ STAT-KON™ DE0049P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DE0049P is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Fiber. Added features of this material include: Exceptional Processing, Flame Retardant.

Also known as: LNP* STAT-KON* Compound DC-1004 EP FR

Product reorder name: DE0049P

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Workability, good		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.50 - 0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.56	%	ISO 294-4
Flow direction: 24 hours	0.14	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16500	MPa	ASTM D638
--	16000	MPa	ISO 527-2/1
Tensile Strength			
Fracture	137	MPa	ASTM D638
Fracture	132	MPa	ISO 527-2
Tensile Elongation			
Fracture	0.90	%	ASTM D638
Fracture	1.4	%	ISO 527-2
Flexural Modulus			
--	12400	MPa	ASTM D790
--	13200	MPa	ISO 178
Flexural Strength			
--	193	MPa	ASTM D790
--	219	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256

23°C ²	5.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	29	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	143	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	143	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	138	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	139	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	3.5E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	3.2E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	3.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°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

