

LNP™ STAT-KON™ DDF029 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DDF029 is a compound based on Polycarbonate resin containing Carbon, Glass Fiber. Added features of this material include: Electrically Conductive. Flame Retardant.
Also known as: LNP* STAT-KON* Compound DF-FR
Product reorder name: DDF029

General Information			
UL YellowCard	E121562-101283884		
Filler / Reinforcement	Glass\Carbon Fiber		
Features	Electrically Conductive		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.49	%	ISO 294-4
Flow : 24 hr	0.44	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4480	MPa	ASTM D638
--	4600	MPa	ISO 527-2/1
Tensile Strength			
Break	81.9	MPa	ASTM D638
Break	81.5	MPa	ISO 527-2
Tensile Elongation			
Break	2.9	%	ASTM D638
Break	2.8	%	ISO 527-2
Flexural Modulus			
--	4410	MPa	ASTM D790
--	4800	MPa	ISO 178
Flexural Strength			
--	133	MPa	ASTM D790

--	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.30	J	ASTM D3763
--	2.27	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	136	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	135	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.3E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.4E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	5.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+10	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.80 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°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		

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

