

LNP™ STAT-KON™ DX05474 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON DX05474 is a compound based on Polycarbonate resin containing 10% Carbon Fiber. Added features of this material include: Electrically Conductive, Easy Molding, Flame Retardant, Mold Release.
Also known as: LNP* STAT-KON* Compound DC-1002 EM FR MR
Product reorder name: DX05474

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	Mold Release		
Features	Electrically Conductive		
	Flame Retardant		
	Good Mold Release		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30 to 0.50	%	ASTM D955
Across Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.51	%	ISO 294-4
Flow : 24 hr	0.36	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13800	MPa	ASTM D638
--	7680	MPa	ISO 527-2/1
Tensile Strength			
Break	105	MPa	ASTM D638
Break	107	MPa	ISO 527-2
Tensile Elongation			
Break	5.9	%	ASTM D638
Break	6.5	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	7300	MPa	ISO 178
Flexural Strength			
--	159	MPa	ASTM D790
--	169	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	8.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	370	J/m	ASTM D4812
23°C ³	28	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	296	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	150	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	291	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	146	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.0E-4	cm/cm/°C	
Transverse : -40 to 40°C	4.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257
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		
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

