

LNP™ STAT-KON™ DX05474 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON DX05474 is a compound based on Polycarbonate resin containing Flame Retardant, 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 reinforced material		
Additive	demoulding		
Features	Conductivity		
	Good formability		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30 - 0.50	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.51	%	ISO 294-4
Flow direction: 24 hours	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			
Fracture	105	MPa	ASTM D638
Fracture	107	MPa	ISO 527-2
Tensile Elongation			
Fracture	5.9	%	ASTM D638
Fracture	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, 3.20mm	296	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	150	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	291	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	146	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 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 - 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		

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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

