

LNP™ STAT-KON™ DX05042 compound

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON DX05042 is a compound based on Polycarbonate resin containing Glass Fiber, PTFE, Carbon Fiber. Added features of this material include: Electrically Conductive, Easy Molding.

Also known as: LNP* STAT-KON* Compound DCFL-4024 EM

Product reorder name: DX05042

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive		
	Good Moldability		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14200	MPa	ISO 527-2/1
Tensile Stress (Break)	157	MPa	ISO 527-2/5
Tensile Strain (Break)	2.1	%	ISO 527-2/5
Flexural Modulus ¹	11300	MPa	ISO 178
Flexural Stress	223	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	11	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, Unannealed, 64.0 mm Span	143	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	145	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	6.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4 mm	

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