Stat-Tech™ LC-20NCF/000 V3 Natural

Liquid Crystal Polymer

PolyOne Corporation

Message:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber for low to high levels of conductivity depending upon application requirements.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Antistatic Conductive Electrically Conductive Electromagnetic Shielding (EMI) Radio Frequency Shielding (RFI) Statically Conductive		
Uses	Aerospace Applications Automotive Electronics Business Equipment Computer Components Connectors Electrical Housing Electrical/Electronic Applications Housings		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.52	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.050 to 0.10	%	
Across Flow	0.70 to 1.0	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	15800	MPa	ASTM D638
Tensile Strength (Break)	93.8	MPa	ASTM D638
Tensile Elongation [2] (Break)	1.0	%	ASTM D638
Flexural Modulus	12200	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	27	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	260	°C	
1.8 MPa, Unannealed, 6.35 mm	206	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
Shielding Effectiveness - 20MHz to 18GHz, 1/8" thickness	30-80	dB	
Static Decay - (Mil-B-81705C), 12% RH, 500 kV to 50 kV	0.002	sec	
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	299 to 316	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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