Stat-Tech™ PC-15CF-15GF/000 BK002

Polycarbonate

PolyOne Corporation

Message:

Stat-Tech™Conductive composite materials have anti-static, ESD and RFI/EMI shielding functions in key electronic equipment. These materials combine the advantages of engineering resins and selected reinforcing additives, such as carbon powder, carbon fiber, nickel-plated carbon fiber and stainless steel fiber. According to the application requirements, the conductivity level of these reinforcing additives is from low to high.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight Carbon fiber reinforced material, 15% filler by weight		
Features	Conductivity Impact resistance, good Good liquidity Thermal stability, good		
Uses	Electrical/Electronic Applications Business equipment Shell		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.36	g/cm³	ASTM D792
Molding Shrinkage (3.00 mm)	0.10 - 0.20	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	140	MPa	ASTM D638
Tensile Elongation [2] (Break)	2.5 - 3.5	%	ASTM D638
Flexural Modulus	12000	MPa	ASTM D790
Flexural Strength	215	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	120	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	133	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 - 1.0E+5	ohms	ASTM D257
Injection	**Nominal Value**	**Unit**	

Drying Temperature	120 - 130	°C
Drying Time	4.0	hr
Processing (Melt) Temp	280 - 300	°C
Mold Temperature	80.0 - 100	°C

Injection instructions
Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW

NOTE	
1.	Type 1, 5.1 mm/min
2.	Type 1, 5.1 mm/min

Recommended distributors for this material

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