

Stat-Tech™ PC-CB2/000 CR

Polycarbonate
PolyOne Corporation

Message:
Stat-Tech™ PC-CB2/000 CR
XP100827

General Information			
Filler / Reinforcement	Carbon Nano		
Features	Clean/High Purity		
	Electrically Conductive		
Uses	Aerospace Applications		
	Automotive Electronics		
	Business Equipment		
	Computer Components		
	Connectors		
	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19 to 1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2070 to 3450	MPa	ASTM D638
Tensile Strength ² (Yield)	55.2 to 72.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.0 to 7.0	%	ASTM D638
Flexural Modulus	1720 to 3100	MPa	ASTM D790
Flexural Strength	89.6 to 103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	37 to 53	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	123	°C	
1.8 MPa, Unannealed	112	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257

Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	120 to 130	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	300 to 320	°C	
Mold Temperature	90.0 to 110	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		

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