

OpteSTAT™ NC PC 1020

Polycarbonate

Ovation Polymers Inc.

Message:

OpteSTAT™ NC compounds are Ovation Polymers' line of nano-compounds based on carbon nanotubes. Our proprietary dispersion technology debundles and disentangles carbon nanotubes without compromising their integrity. OpteSTAT™ compounds exhibit good conductivity at minimal nanotube loadings, achieving exceptional cleanliness and physical property retention.

OpteSTAT™ NC-PC 1020 is Polycarbonate-based carbon nanotube compound. The material resistivity can be tailored to the application, while retaining the physical and thermal properties of the base polymer.

Target applications include components of disk drives, business machines or other electronic assemblies where ESD control is required while retaining exceptional cleanliness, dimensional control and physical properties.

General Information			
Filler / Reinforcement	Carbon Nano		
Features	Clean/High Purity		
	Conductive		
	ESD Protection		
	Good Dimensional Stability		
	Good Electrical Properties		
Uses	Business Equipment		
	Computer Data Storage		
	Electrical Parts		
	Masterbatch		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2140	MPa	ASTM D638
Tensile Strength ² (Yield)	65.0	MPa	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	2650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	126	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+3 to 1.0E+6	ohms	ASTM D257
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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