

OpteSTAT™ NC TPU 9020

Thermoplastic Polyurethane Elastomer

Ovation Polymers Inc.

Message:

OpteSTAT™ master batches 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 TPU 9020 is a Thermoplastic Polyurethane-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 | | |
| Uses | Business Equipment | | |
| | Computer Data Storage | | |
| | Electrical Parts | | |
| | Masterbatch | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.23 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 7.00 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield) | 6.5 | % | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 48 | J/m | ASTM D256 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+4 to 1.0E+7 | ohms | ASTM D257 |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |

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