

Nanocyl PLASTICYL™ PP2001 Polypropylene with 2 wt% Multi-Wall Carbon Nanotubes

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Carbon Fiber Filled

Material Notes:

PLASTICYL™ is a family of Multi-Wall Carbon Nanotube (MWNT) thermoplastic concentrates for applications requiring superior electrical conductivity and electrostatic discharge (ESD) properties. PLASTICYL™ PP2001 is a conductive masterbatch based on polypropylene. Because of its low viscosity and high flow formulation, PLASTICYL™ PP2001 is ideal for standard injection molding and extrusion processes. Key Applications: ESD (Electrostatic Discharge) and electrically conductive parts E&E automotive and industrial Injection molding, extrusion Benefits: Electrical conductivity at low loading Retention of key mechanical properties Easier processing

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-PLASTICYL-PP2001-Polypropylene-with-2-wt-Multi-Wall-Carbon-Nanotubes.php

Physical Properties	Metric	English	Comments
Filler Content	2 %	2 %	Carbon Nanotube Loading
Melt Flow	5.6 g/10 min	5.6 g/10 min	ISO 1133:1997

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.5 MPa	5150 psi	ISO 527-1,2
Elongation at Break	154 %	154 %	ISO 527-1,2
Tensile Modulus	1.728 GPa	250.6 ksi	ISO 527-1,2
Charpy Impact, Notched	0.320 J/cm²	1.52 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	Masterbatch; ISO 11357-1,-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.10e+6 ohm-cm	4.10e+6 ohm-cm	CTM E043
Surface Resistivity per Square	6.10e+10 ohm	6.10e+10 ohm	CTM E042

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