

## Nanocyl PLASTICYL™ PA1501 Polyamide 66 with 3 wt% Multi-Wall Carbon Nanotubes

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### 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™ PA1501 is a conductive masterbatch based on polyamide 66. Because of its flow formulation, PLASTICYL™ PA1501 is ideal for standard injection molding and extrusion processes. Applications: ESD (Electrostatic Discharge) and electrically conductive parts E&E, automotive, 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-PA1501-Polyamide-66-with-3-wt-Multi-Wall-Carbon-Nanotubes.php](http://www.lookpolymers.com/polymer_Nanocyl-PLASTICYL-PA1501-Polyamide-66-with-3-wt-Multi-Wall-Carbon-Nanotubes.php)

Physical Properties	Metric	English	Comments
Filler Content	3 %	3 %	Carbon Nanotube Loading
Melt Flow	13.22 g/10 min @Load 1.20 kg, Temperature 300 °C	13.22 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133:1997

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.18 MPa	10030 psi	ISO 527-1,2
Elongation at Break	2.21 %	2.21 %	ISO 527-1,2
Tensile Modulus	3.466 GPa	502.7 ksi	ISO 527-1,2
Charpy Impact, Notched	0.285 J/cm <sup>2</sup>	1.36 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	Masterbatch; ISO 11357-1,-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.12e+10 ohm-cm	1.12e+10 ohm-cm	CTM E043

Processing Properties	Metric	English	Comments
Processing Temperature	300 °C	572 °F	Material Temperature
Mold Temperature	80.0 °C	176 °F	
Hold Pressure	25.0 MPa	3630 psi	

Back Pressure Processing Properties	0.000 MPa Metric	0.000 psi English	Comments
Descriptive Properties		Value	Comments
Processing: Holding Time		25 s	
Processing: Injection Speed		70 cm <sup>3</sup> /s	
Processing: Plasticizing Speed		0.4 m/s	

## Contact Songhan Plastic Technology Co.,Ltd.

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