



THE CARBON NANOTUBE SPECIALIST

NANO-ENGINEER YOUR FUTURE

PLASTICYL

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PLASTICYL™ TPU1001 Technical Data Sheet

General Information

Description

PLASTICYL™ is a family of Multi-Wall Carbon Nanotubes (MWNT) thermoplastic concentrates for applications requiring superior electrical conductivity and electrostatic discharge (ESD) properties. PLASTICYL™ TPU1001 is a conductive masterbatch based on thermoplastic polyurethane. Because of its high flow, PLASTICYL™ TPU1001 is ideal for both injection molding and extrusion processes.

Key Applications

- Tubes and pipes extrusion
- Conveyor belts
- Extruded films

Benefits

- Excellent electrical conductivity at low loading
- Retention of key mechanical properties
- Ease of processing
- Better abrasion properties
- High cleanliness

Technical Data

Main Characteristics

| CARBON NANOTUBES LOADING (%WT) | REAL DENSITY (G/L) ISO 1183 | MFI (G/10 MIN) NON-STANDARD TEST : 190°C ; 8.7 kg ; 4 mm |
|-----------------------------------|--------------------------------|--|
| 10 ± 1,0 | - | 4.75 |

Nanocyl S.A.

Rue de l'Essor 4 Tel +32 71 750 380
 B-5060 Sambreville Fax +32 71 750 390
 BELGIUM sales@nanocyl.com

US contact

info-us@nanocyl.com



www.nanocyl.com



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Commercial/Safety Information

Packaging

- 5 kg boxes.
- 25 kg sealed bags.
- 600 kg octabins.

Minimum Order Quantity

Nanocyl's minimum order quantity for PLASTICYL™ TPU1001 is 5 kg.

Custom Grades

Besides the commercial grades, Nanocyl is able to toll-compound any type of TPU masterbatches to meet its clients' needs.

Health and Safety

A Material Safety Data Sheets (MSDS) is available to provide both workers and emergency personnel with the proper procedures for handling or working with the PLASTICYL™ TPU1001. This MSDS includes information such as physical data (form and color, melting point, etc.), handling and storage recommendations, first aid measures and ecological information. The Safety Data Sheet is provided with any order and should be observed.

Disclaimer

This information is intended to be used only as a guideline for designers and users of modified thermoplastics. All information is believed to be accurate but is given without acceptance of liability. Users should make their own assessment of the suitability of the product for the purposes required. Properties may be materially affected by extrusion and molding parameters as well as by the shape and size of the part. No information supplied by Nanocyl constitutes a warranty regarding the product performance.

For technical assistance, sales or further information, please contact us :

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