



THE CARBON NANOTUBE SPECIALIST

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PLASTICYL

Ref: PLASTICYL™ SEBS1001 – 4 June 2010 – V01

PLASTICYL™ SEBS1001 / Product Data Sheet

General Information

Description

PLASTICYL™ is a family of Multi-Wall Carbon Nanotube (MWNT) thermoplastic concentrates for applications requiring superior electrical conductivity and electrostatic discharge (ESD) properties. PLASTICYL™ SEBS1001 is a conductive masterbatch based on SEBS (styrene-ethylene/butadiene-styrene) with 10% NC7000.

Key Applications

Masterbatch for the production of SEBS and SBS antistatic materials or wasting electrostatic for injection molding.

Suggested dilution

The suggested dilution for this product is dependent on the desired characteristics of resistivity, which are closely related to molding settings. In order to find the appropriate dilution we strongly recommend performing tests at different percentages in working conditions.

Physical properties

Masterbatch:

Property	Test method	Min value	Average value	Max value
MVR [cm ³ /10min]	ISO 1133, 230 °C/2.16kg	50	75	110
Resistivity [Ohm*cm ² /cm]	ISO 3915	-	2.5	20
Volatile fraction [%]	ISO 960	-	0.14	0.20
Apparent density [g/dm ³]	Internal	410	460	510
Granules per gram	Internal	35	40	45

Important: These values are to be considered approximate; the product has just finished the development phase

Nanocyl S.A.

Rue de l'Essor 4
B-5060 Sambreville
BELGIUM

Tel +32 71 750 380
Fax +32 71 750 390
sales@nanocyl.com

US contact

info-us@nanocyl.com

www.nanocyl.com



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Polymer matrix:

Property	Test method	Min value
Polystyrene content [%w/w]	KM 03	18.5÷22.5
Viscosity, solution (toluene) 25%w @25°C [cP]	BAM 922	1.050÷1.550

Handling and storage

PLASTICYL™ SEBS1001 is produced in granules; it is easily transportable with equipment designed for polymer granules, since such equipment can prevent the accumulation of dust and small particles contained in all resins. Both dust and small particles may bring to risk of explosion in special environmental conditions. We suggest that the transport system should be equipped with appropriate filters: they must be working and maintained in conditions that would prevent losses and must be protected by adequate earthing. We also recommend performing appropriate equipment maintenance.

Before using this product please check carefully the product safety data sheet provided by Nanocyl S.A.

Precautions before use

SEBS is not a hygroscopic polymer; anyway, after a long storage period we suggest a pre-drying of the products before use, in order to remove superficially adsorbed moisture.

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 :

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