

ELASTOCYL™

CNT elastomers concentrates

ELASTOCYL™ HTV1002

Vinyl terminated silicone – Carbon nanotubes concentrates

General Information

Description

ELASTOCYL™ is a product range that demonstrates the performance of carbon nanotubes (CNT) dispersion in elastomers. Optimal CNT dispersion provides customers the benefits and performance improvements offered by this new class of additives. CNT are frequently used in synergy with other commonly used fillers. This minimizes reformulations and accelerates product innovation.

ELASTOCYL™ HTV1002 is high performance vinyl terminated silicone HTV (high temperature vulcanization) silicone masterbatch loaded with 10wt% of Nanocyl's MWCNTs (NC7000™). It can be cross-linked with Pt-curing systems or peroxides.

Key Applications

- Electrical and Electronics (E&E), automotive and packaging industries

Advantages

- High anti-static/dissipative performance (excellent electrical conductivity at low loading)
- High tinting power
- Large flexibility of the compound formulations that can be adjusted to other properties while maintaining high conductivity
- Full compatibility and functional dispersions into the silicone elastomer matrix

Technical Data

Typical properties of ELASTOCYL™ HTV1002

PROPERTIES	UNITS	ELASTOCYL™ HTV1002
<i>Visual Aspect</i>	-	black solid rod (diameter: 10 cm, length: 30 cm)
<i>Vinyl content</i>	mmol/g	0.01
<i>Specific Gravity</i>	g/cm ³	1.10

General Processing Guidelines

ELASTOCYL™ HTV1002 can be diluted with raw HCR/HTV silicone to reach the targeted mechanical and electrical properties. The dilution ratio tends not to exceed 50% in silicone compounds.

Commercial/Safety Information

Packaging

Elastocyl HTV1002 is available in cardboard/carton boxes of 5 or 10 kg.

Minimum Order Quantity

Nanocyl's minimum order quantity for ELASTOCYL™ HTV1002 is 5 kg.

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 ELASTOCYL™ HTV1002. 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 Material Safety Data Sheet is provided with any order and should be observed.

Disclaimer

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