

Nanocyl EPOCYL™ NC E1MY-02 Master Batch Liquid tetrafunctional epoxy Resin for non-Solvent Formulation Purposes

Category : Polymer , Thermoset , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

EPOCYL™ NC E1MY-02 is a Mater Batch based on liquid tetrafunctional epoxy resin containing high concentration of Carbon Nanotubes (CNT) produced by Nanocyl. It is specifically developed to enhance electrical conductivity of high Tg epoxy-based formulations. Special features include easy integration and great flexibility in processing. Dilution factor has to be calculated accordingly to the desired level of conductivity. Applications Electrostatic discharge (ESD) coatings, linings (tanks, rollers, ...) and composites Conductive primers Resistive inks Adhesives Benefits Limited impact on base resin mechanical and thermo-mechanical properties Ease of formulation Other information available upon request to Nanocyl Curing agents EPOCYL™ NCE1MY-02 based formulations can be cured or cross-linked with different types of curing agents which could be decided accordingly to the desired processing conditions and the properties of the final composite like any conventional tetrafunctional based formulations.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-EPOCYL-NC-E1MY-02-Master-Batch-Liquid-tetrafunctional-epoxy-Resin-for-non-Solvent-Formulation-Purposes.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 - 1.18 g/cc	1.15 - 1.18 g/cc	
Viscosity	5000 - 35000 cP @Temperature 60.0 °C	5000 - 35000 cP @Temperature 140 °F	Measured with parallel plate in dynamic mode ar 10 rad/s and a strain of 1%.
	235000 - 345000 cP @Temperature 25.0 °C	235000 - 345000 cP @Temperature 77.0 °F	Measured with parallel plate in dynamic mode ar 10 rads/s and a strain of 1%.

Electrical Properties	Metric	English	Comments
Volume Resistivity	900 ohm-cm	900 ohm-cm	70 parts per 100 of NC E1MY-02 in the final compound
	8000 ohm-cm	8000 ohm-cm	35 parts per 100 of NC E1MY-02 in the final compound
	10000 ohm-cm	10000 ohm-cm	12 parts per 100 of NC E1MY-02 in the final compound
	40000 ohm-cm	40000 ohm-cm	12 parts per 100 of NC E1MY-02 in the final compound

Descriptive Properties	Value	Comments
Aspect	Paste, black (Master Batch)	
Epoxy Equivalent	112.2 - 119.5 g/eq	
Epoxy Value	8.36 - 8.91 eq/kg	

Storage Temperature Descriptive Properties	°C Value	Comments
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