

Nanocyl EPOCYL™ NC R128-04 Master Batch Liquid Bisphenol-A Resin for Solvent Based Formulation Purposes: Dilution Factor 6

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

Material Notes:

EPOCYL™ NC R128-04 is a Master Batch based on liquid Bisphenol-A (Bis-A) epoxy resin containing high concentration of Carbon Nanotubes (CNT) produced by Nanocyl, with a suggested dilution factor of 6. It is specifically developed to enhance the mechanical properties of the final fiber reinforced composite materials. Special features include easy integration and great flexibility in design of new multifunctional materials. Applications: High performance structural composite partsAutomotive (bumpers and other structural parts)Marine, especially sailing boats (structural outer shell in carbon fiber composite, masts and other generic structural parts)Industrial parts (rollers, doctor-blades and wind-mill blades)Sporting equipments (bike frames, hockey sticks, tennis rackets, skis and golf shafts)Aerospace (structural parts and interiors)Main direct advantages (demonstrated in specific final formulation)Improved fracture toughness (G1C) of over 100% = higher crack propagation/delamination resistancelmproved failure strength: transverse and off-axis (+/- 45°) by over 15% = higher shear resistanceReduced CTE of over 15% = less distorted parts producedNo reduction in the Tg = possible to be used in any formulationAdditional advantages in generalElectrical properties: induces antistatic properties in the composite parts; excellent for electrostatic painting applicationFlame resistance: higher resistance to flammability up to UL 94 level on the final fiber reinforced compositeBetter thermal dissipation: avoids hot-spots during curing, more homogenous temperatureCuring agents EPOCYL™ NC R128-04 can be cured or cross-linked with different types of curing agents depending on the properties desired in the final composite like any conventional Bis-A based formulations.IMPORTANT: EPOCYL™ NC R128-02 is not an additive in your formulation, it is a substitution product for the equivalent parts of your conventional Bis A liquid resin. EPOCYL™ NC R128-02 is designed only for formulating solvent based formulations.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-EPOCYL-NC-R128-04-Master-Batch-Liquid-Bisphenol-A-Resin-for-Solvent-Based-Formulation-Purposes-Dilution-Factor-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 - 1.20 g/cc	1.15 - 1.20 g/cc	
Viscosity	25000 - 45000 cP	25000 - 45000 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Aspect	Paste, black (Master Batch)	
Epoxy Equivalent	196.1 - 203.52 g/eq	
Epoxy Value	4.91 - 5.1 eq/kg	
Storage Temperature	5°C - 40°C	

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