



NOVOC® 3000

Description:

NOVOC 3000 is a high solids, zero HAP's, iso-polyester resin developed by NOVOC Performance Resins, LLC to reduce emissions in all types of manufacturing. The resin system emits less than 1% VOC's.

NOVOC 3000 provides solid physical properties in a zero HAP's package, specifically geared to the resin transfer molding or vacuum infusion customer. Because of its low viscosity and high flex, the material can be easily filled, yet still maintain good impact and chemical resistance.

NOVOC 3000 compares favorably to conventional iso-polyesters based on physical properties, but surpasses the competition in solids yield and VOC reduction. The resin has good wet-out characteristics and requires no extraordinary handling or processing procedures.

We recommend that each user evaluate the performance of the NOVOC 3000 under conditions that simulate production procedures as nearly as possible to determine suitability for each application. For additional technical information or questions, contact your sales representative.

Physical properties: (Reinforced - See below)

Tensile

| | |
|-----------------------------------|------------|
| Test Type..... | ASTM D638 |
| Mean Tensile Strength (psi) | ~16,910 |
| Mean Tensile Modulus (psi)..... | ~1,210,583 |

Flexural

| | |
|-----------------------------------|-----------|
| Test Type..... | ASTM D790 |
| Mean Flexural Strength (psi)..... | ~26,718 |
| Mean Flexural Modulus (psi)..... | ~978,505 |

Compression

| | |
|---------------------------------------|-----------|
| Test Type..... | ASTM D695 |
| Mean Compressive Strength (psi) | ~19,371 |
| Mean Compressive Modulus (psi)..... | ~489,731 |

Impact

| | |
|------------------------------------|-----------|
| Test Type..... | ASTM D265 |
| Izod Impact Strength (ft.lb.)..... | ~18.42 |

Elongation, %.....~5.2

Water Absorption.....0.37

Glass Transition Temperature.....~243°F

Physical properties testing was performed using clear resin panels, with 34% chopped strand mat fiberglass reinforcement.