



NOVOC® 7100

Description:

NOVOC 7100 is a high solids, zero HAP's, 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 7100 provides solid physical properties in a zero HAP's package, specifically suitable as a base resin for flooring applications, and also 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 resistance.

NOVOC 7100 compares favorably to conventional 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 7100 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: (Neat)

Tensile

Test Type.....	ASTM D638
Mean Tensile Strength (psi)	~22,991
Mean Tensile Modulus (psi).....	~1,183,844

Flexural

Test Type.....	ASTM D790
Mean Flexural Strength (psi).....	~32,939
Mean Flexural Modulus (psi).....	~688,743

Compression

Test Type.....	ASTM D695
Mean Compressive Strength (psi)	~23,348
Mean Compressive Modulus (psi).....	~507,731

Impact

Test Type.....	ASTM D265
Izod Impact Strength (ft.lb.).....	~16.6

Elongation, %.....~6.2

Water Absorption.....0.39

Glass Transition Temperature.....~229°F