



NOVOC® 4985-36H Vinyl Ester Resin for CIPP Mainline

NOVOC® 4985-36H is a high solids, zero HAP's, vinyl ester resin system developed to help CIPP contractors meet stringent environmental standards. The resin system has no VOCs or HAPs and is completely styrene free.

NOVOC® 4985-36H offers the following performance characteristics:

36+ hours in bag stability @ 70F	Wet out the day before without concern
40+ days in bag stability @ 0F	Bags can be frozen for over a month
No VOCs, HAPs or styrene	Low odor, no hazardous leachate and minimal environmental impact
	Non-Hazardous (not flammable) for transport and storage
Single liquid non-red label peroxide	No -pre-wetting or handling of low temp peroxides
Lower shrink than styrene-based systems	No need for slow ramp-up or ramp down in temperature for faster cure cycles
Over 20 years of no VOC experience	Contractors can depend on a user-friendly system that has been proven to perform.
More than one thousand miles installed	Same reliable polymer with improved curing system

The glass transition temperature of the **NOVOC® 4985-36H** exceeds 300°F, making it an ideal candidate wherever high performance is a necessity.

NOVOC® 4985-36H will outperform conventional polyesters and vinyl esters based on physical properties and high solids yield. The resin has excellent wet-out characteristics and requires no extraordinary handling or processing procedures to achieve outstanding physical properties with low VOC's.

Go Trenchless Supply, LLC ask that each user evaluate the performance of the **NOVOC® 4985-36H** 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.

Liquid Properties

Viscosity..... 3,500
Thix Index 2
Gel time 180F 20g test tube 15 minutes
Gel time 70 f (200g mass)..... over 36 hours

Physical Properties (6mm felt)

Tensile

Test Type.....ASTM D638
Mean Tensile Strength (psi) 8,000
Mean Tensile Modulus (psi) 550,000

Flexural

Test Type.....ASTM D790
Mean Flexural Strength (psi) 14,000
Mean Flexural Modulus (psi) 525,000

Physical properties:

NEAT RESIN

Tensile

Test TypeASTM D638
Mean Tensile Strength (psi) 12,000
Mean Tensile Modulus (psi) 550,000

Flexural

Test TypeASTM D790
Mean Flexural Strength (psi) 19,000
Mean Flexural Modulus (psi) 540,000

Compression

Test TypeASTM D695
Mean Compressive Strength (psi) 27,000
Mean Compressive Modulus (psi) 465,000

Impact

Test TypeASTM D265
Izod Impact Strength (ft.lb.) 16.93

Elongation, %..... 3.5

Water Absorption0.30

Glass Transition Temperature..... <300°F