

Product Information

EcoTek Enhanced Ultra Low VOC Resin for Underground Sewer Pipe Liners



DESCRIPTION

The EcoTek L040-TNVG-33 is an enhanced, Ultra Low VOC resin designed for CIPP applications. L040-TNVG-33 does not contain any styrene monomers or hazardous air pollutants.

FEATURES

- Excellent catalyzed pot life
- Superior mechanical properties
- Contains no styrene

BENEFITS

Adaptability

The EcoTek L040-TNVG-33 molecular architecture provides an excellent balance of corrosion and physical properties.

TYPICAL FILLED LIQUID RESIN PROPERTIES* (1) see back page

	Nominal
Viscosity @ 77°F/25°C, RVF Brookfield Spindle #4 @ 20 RPM, cps.	6,500
Thix Index 2/20	>2
Color	Light brown
Specific Gravity @ 77°F/25°C	1.28
Gel Time @ 140°F, minutes	33
Pot Life @ 77°F/25°C, hours	48

TYPICAL 6mm PET FELT MECHANICAL PROPERTIES* (2) see back page

		Test Method
Tensile Strength,psi/MPa	3,800/26	ASTM D 638
Tensile Modulus,psi/GPa	570,000/3.9	ASTM D 638
Tensile Elongation, %	0.87	ASTM D 638
Flexural Strength,psi/MPa	7,400/51	ASTM D 790
Flexural Modulus,psi/GPa	550,000/3.8	ASTM D 790
Barcol Hardness	>40	ASTM D 2583

*Typical properties are not to be construed as specifications.



EcoTek®
L040-TNMG-33
Vinyl Ester Resin



PERFORMANCE GUIDELINES

A. Keep full strength catalyst levels between 1.0% - 3.0% of the total resin weight.

B. Maintaining shop temperatures between 65°F/ 18°C and 90°F/32°C and humidity between 40% and 90% will help the fabricator make a high quality part. Consistent shop conditions contribute to consistent gel times.

STORAGE STABILITY

Resins are stable for three months from date of production when stored in the original containers away from sunlight at no more than 77°F/25°C. After extended storage, some drift may occur in gel time.

During the hot summer months, no more than two months stability at 86°F/30°C should be anticipated.

SAFETY

See appropriate Material Safety Data Sheet for guidelines.

ISO 9001:2008 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2008 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

FOOTNOTES

(1)

The gel times shown are typical but may be affected by catalyst, promoter and inhibitor concentrations and resin, mold and shop temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and fillers can retard or accelerate gelation. It is recommended that the fabricator check the gelling characteristics of a small quantity of resin under actual operating conditions prior to use.

(2)

Based on tests of EcoTek L040-TNMG-33 at 73°F/23°C and 50% relative humidity. All thixotropic resins should be mixed well prior to use. Testing conducted on 2 ply 3mm PET felt laminates.



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