MaxPox VE

Vinyl Ester Resin

INTRODUCTION

MaxPox VE is a corrosion resistant, epoxy vinyl ester resin for use in the manufacture of liner pipe using cured-in-place techniques. This resin is designed for ambient cure. The corrosion resistance of this resin is comparable to CORVE8100. Data on any specific testing or corrosion recommendations will be supplied upon request.

FEATURES

- Moderate Composite Exotherm
- Good Fiberglass Wet-Out
- Tested Under ASTM D2990 for Flexural Modulus Creep

BENEFITS

- Resistant to distortion during cure cycle
- High composites physical properties
- Retains structural integrity under load in severe conditions

LIQUID PROPERTIES	RESULTS
Viscosity, Brookfield Model LV, #3 Spindle @ 60 rpm, 77°F (25°C), cPs	400-600
100 grams of resin @ 77°F (25°C), initiated with 4.0% Perkadox CH-50 by weight *	
Gel Time, min:sec	20:00-25:00
Gel to Peak Exotherm, min:sec	5:00-10:00
Peak Exotherm	320-400°F (160-204°C)
Non-Volatile Content, %	54.0-60.0
Weight per Gallon, lbs.	8.60-9.00

MAXLINER

TYPICAL PROPERTIES

Thickness	1/8 inch (3.2 mm) Casting		1/4 inch (6.4 mm) Laminate	
Construction	Not Applicable		CIPP Felt Laminate	
Flexural Strength, ASTM D790	19,000psi	131MPa	11,000psi	76MPa
Flexural Modulus, ASTM D790	4.7 x 105psi	3,241MPa	5.1 x 105psi	3,500MPa
Tensile Strength, ASTM D638	12,000psi	83MPa	6,800psi	47MPa
Tensile Modulus, ASTM D638	4.7 x 105psi	3,241MPa	5.3 x 105psi	3,700MPa
Tensile Elongation, ASTM D638	4.5%	4.5%	2.0%	2.0%
Barcol Hardness, 934-1 gauge, ASTM D2583	36	36	N/A	N/A
Heat Distortion Temperature, ASTM D648	210°F	98°C	197°F	92°C

* Gel time and reactivity will vary due to the type and concentration of Free Radical Initiator (catalyst), shop temperature, humidity, and type of fillers used. In order to meet your individual needs consult our technical sales representative for assistance.

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