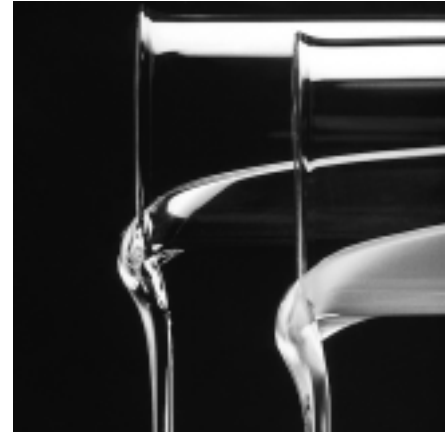


## Product Information

# Vipel™ Isophthalic Based Resin for Underground Sewer Pipe Liners



**TYPICAL FILLED LIQUID RESIN PROPERTIES\* (1) Vipel™ L705-FDA-06 see**

	Nominal
Viscosity @ 77°F/25°C, RVF Brookfield (with ATH-filler)	
Spindle #4 @ 20 RPM, cps.	2250
Thix Index 2/20	2.8
Color	Opaque
Styrene, %	33
Gel Time @ 25°C with (0.4% DEA & 4.5% Cadox 40E ), minutes	17.5

\*\*Cadox is a trademark of Akzo Nobel Chemicals

**TYPICAL CLEAR CAST MECHANICAL PROPERTIES\* (2) See back**

		Test Method
Tensile Strength, psi/MPa	9700/66.6	ASTM D 638
Tensile Modulus, psi/GPa	590,000/4.1	ASTM D 638
Tensile Elongation, %	2.0	ASTM D 638
Flexural Strength, psi/MPa	18,900/130	ASTM D 790
Flexural Modulus, psi/GPa	610,000/4.2	ASTM D 790
Heat Distortion Temperature, °F/°C @ 264 psi	225/107	ASTM D 648
Barcol Hardness	45	ASTM D 2583

\*Typical properties are not to be construed as specifications.

### DESCRIPTION

Vipel™ L705-FDA-06 is a high molecular weight isophthalic/unsaturated polyester resin. The Vipel™ L705-FDA-06 provides the corrosion resistance, durability and toughness that is required for cured in place pipe applications.

### BENEFITS

- Excellent catalyzed pot life
- Excellent mechanical properties
- High molecular weight
- High viscosity version

# Vipel™ L705-FDA-06 Polyester 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 six months from date of production when stored in the original containers away from sunlight at no more than 70°F/21°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.

## 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 on P084-60 at 77°F/25°C and 50% relative humidity. All tests performed on unreinforced cured resin castings. Thixotropic components, if applicable, are excluded from casting samples. Castings prepared using 1.25% MEKP-9, 0.25% Cobalt 6% post cured for 2 hours at 212°F/100°C using AOC test method X-12Ab.

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