

## Product Information

Styrene-free Vinyl ester resin used for UV-cure  
CIPP/Relining of laterals/house connections

### Description

Styrene-free Vinyl ester resin used for relining of laterals and house connections.

### Benefits

- Suitable for renovation of laterals
- Ultra-low VOC emission and low smell (Styrene-free)
- Fast installation through UV-cure
- Low maintenance and long-term durability
- Great resistance to chemicals

Product specifications			
Property	Value	Unit	TM
Peak temperature	135 - 155	°C	TM 2500
Peak time	2 - 5	min	TM 2500
Viscosity	2700 - 3100	mPa.s	TM 2013, 23°C, 100 s <sup>-1</sup>
Appearance	Clear, slightly hazy		TM 2265
Color Lico Gardner	0 - 5	G	TM 2017

### ISO 9001:2015 Certified

The Quality Management Systems at every manufacturing facility have been certified as meeting ISO 9001:2015 standards. This certification recognizes that each 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.

## Storage Guidelines

The product should be stored indoors in a dry place at temperatures between 5°C and 30°C, in the original, unopened, 100% light-tight and undamaged packaging. The properties of the product may change slightly during storage. Shelf life is shorter at higher temperatures.

## Material Safety

A Material Safety Data Sheet of this product is available on request.

### Liquid resin typical properties

Property	Value	Unit	TM
Density	1130	kg/m <sup>3</sup>	TM 2160, 23 °C
Flash point	110	°C	TM 2800
Stability	12	Month	TM 2303, 25 °C, dark

### Unfilled castings typical properties

Property	Value	Unit	TM
Tensile elongation	2.9	%	ISO 527-2
Flexural modulus	3.2	GPa	ISO 178
HDT	91	°C	ASTM D648
Tensile strength	65	MPa	ISO 527-2
Tensile modulus	3.1	GPa	ISO 527-2
Flexural strength	105	MPa	ISO 178
Outer fiber strain	3.9	%	ISO 178

Cured with 1.5 phr Cobalt accelerator (1%) and 2.0 phr High reactive Cumyl hydroperoxide.  
Cured for 24 hrs at RT and 24 hrs at 60°C and 24 hrs at 80°C. Cure conditions can significantly affect the physical properties of the resin.

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