L050-LCA-03

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

L050-LCA-03 is a highly thixotropic Styrene-free Vinyl ester resin used for CIPP/ Relining of laterals and house connections. The resin can be cured by UV light.

The technology enables to extend useful life of laterals without major construction works.

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

AOC Next® Product

L050-LCA-03 is a styrene-free resin, resulting in ultra-low VOC emissions during processing and liner installation. For that reason it has received the AOC Next® Eco-label for Sustainable Products and Solutions.

Product Specifications

Property	Value	Unit	TM
Appearance	Hazy		TM 2265
Peak time	2 - 4	min	TM 2500
Peak temperature	140 - 160	℃	TM 2500
Viscosity	3000 - 4500		TM 2313, 23 °C, 2 s^{-1}
Viscosity	1700 - 2400		TM 2313, 23 °C, 20 s^{-1}
Viscosity	1350 - 1600		TM 2313, 23 °C, 250 s^{-1}
Viscosity	1500 - 2100		TM 2313, 23 °C, 50 s^{-1}

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Liquid resin typical properties

Property	Value	Unit	TM
Density	1110	kg/m³	TM 2160, 23 °C
Flash point	110	°C	TM 2800
Stability	6	Month	TM 2303, 25 °C, dark

Unfilled castings typical properties

Property	Value	Unit	TM
Tensile strength	60	MPa	ISO 527-2
Tensile modulus	2.9	GPa	ISO 527-2
Tensile elongation	5	%	ISO 527-2
Flexural strength	101	MPa	ISO 178
Flexural modulus	2.8	GPa	ISO 178
HDT	79	°C	ASTM D648, 264 psi

Cured with 1.5% low activity MEKP and 0.4 ml Cobalt accelerator 1% solution added to 100 g of resin. After 24 h at RT followed by post curing for 24 h at 60 °C + 24 h at 80 °C.

The resin 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 resin may change slightly during storage. Shelf life is shorter at higher temperatures.

Material Safety

A Safety Data Sheet (SDS) of this product is available on request.

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Test Methods

Test methods (TM) referred to in the table(s) are available on request.

ISO 9001:2015 Certified

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2015 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.

AOC. Trusted Solutions

AOC is the leading global supplier of specialty formulations and solutions which enable customers to create robust, durable, and versatile products and components for applications in Coatings and Protective Barriers, Colorants and Visual Effects, Adhesives and Specialties, and conventional Composites. With strong capabilities worldwide in manufacturing and science, the company works closely with customers to deliver unrivaled quality, service, and reliability for today and create innovative solutions for tomorrow.

Contact us for more information

We will help you to choose the right solution for your business.

emea@aocformulations.com

Europe, Middle East & Africa
+41 52 6441212
emea@aocformulations.com
aocformulations.com

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