

Atlac® E-Nova MA 6215

Epoxy Bisphenol-A modified Vinyl ester resin for Marine Infusion

Atlac® E-Nova MA 6215 resin is broadly used for making fiber reinforced components through Vacuum infusion processes. Laminates based on Atlac® E-Nova MA 6215 resin provide great hydrolysis resistance.

The Atlac® E-Nova MA 6215 resin has been certified by Lloyd's Register and RINA for use in Marine applications.

Benefits

- Easy processing through excellent de-aeration and fiber wetting
- Great hydrolysis resistance
- Certified by Lloyd's Register and RINA
- Performance track record in Marine applications

Major Applications

Atlac® E-Nova MA 6215 has been specifically developed for Injection and Vacuum infusion processes.

Atlac® E-Nova MA 6215 has excellent wet out and air-release properties. The resin can be cured with Medium reactive MEKP, or Low reactive MEKP when longer gel times are desired.

Compared to conventional Vinyl ester resins foaming after MEK peroxide addition is highly reduced in Atlac® E-Nova MA 6215 leading to less air bubble enclosure and reduced inhibition inside the laminate.

Certifications and Approvals

Cured Atlac® E-Nova MA 6215 is certified by Lloyd's Register and Registro Italiano Navale (R.I.Na) for use in Marine applications.

Product Specifications

Property	Value	Unit	TM
Appearance	Clear, Slightly hazy		TM 2265
Solids content	58,5 - 60,5	%	TM 2033
Viscosity 23 °C, 100 s ⁻¹	80 - 90	mPa.s	TM 2013
Gel time 25 until 35 °C	43 - 49	min	TM 2625
Peak time	70 - 82	min	TM 2625
Peak temperature	105 - 135	°C	TM 2625
Water content	0,01 - 0,1	%	TM 2350

Viscosity measurement: Z2/100 s⁻¹/ 23 °C. Reactivity determined with 3.0 g (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide added to 100 g of resin.

Liquid

Property	Value	Unit	TM
Density 25 °C	1100	kg/m ³	TM 2160
Flash point	33	°C	TM 2800
Stability (no initiator, dark, 25°C)	6	month	

Solid Unfilled

Property	Value	Unit	TM
Tensile strength	70	MPa	ISO 527-2
Tensile modulus	4	GPa	ISO 527-2
Elongation at break	2.5	%	ISO 527-2
Flexural strength	120	MPa	ISO 178
Flexural E-Modulus	4	GPa	ISO 178
HDT	105	°C	ASTM D648
Water absorption	0.5	wt%	ISO 175

Cured with 1.5% (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide. After 24 h at RT a post curing for 6 h at 100°C was applied.

Water absorption value after 24 h. at 60 °C.

Application Guidelines

Before use, the resin should be conditioned at a well-defined application dependent temperature (usually 15°C minimum for a MEKP/ Cobalt cure).

Brochures

You can find additional information through the Atlac® Product Guide. For detailed information on the chemical resistance of Atlac® resins, please consult our Chemical Resistance Guide. Both brochures are available for download from the AOC web site (www.aocresins.com).

Storage Guidelines

The resin should be stored in a dark and dry place at temperatures between 5°C and 30°C. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage.

The shelf life of styrene containing vinylester resins will be significantly reduced when exposed to light. Store dark and in 100% light tight containers only.

Material Safety

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

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 resins and specialty materials which enable customers to create robust, durable and versatile products and components. With strong capabilities around the world 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. Partner with AOC and we will work together to find the right solutions for your business.

Contact us for more information

We will help you choose the right resin solution.

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