

Product Data Sheet

Atlac E-Nova MA 6325

DSM Composite Resins AG

P.O. Box 1227 82075 Schaffhausen Switzerland

www.dsm.com

Atlac E-Nova

Atlac E-Nova is an evolutionary development building on 40 years of unsaturated polyester and epoxy vinyl ester (urethane) technology. Atlac E-Nova results in resin systems tailored to the needs of customers and end-users, offering enhanced properties over currently available vinyl ester resins.

Major applications

Atlac E-Nova MA 6325 is developed as high solid tie coat resin with a monomer content less than 35% for marine applications.

Chemical/physical nature

Atlac E-Nova MA 6325 is a pre-accelerated thixotropic, epoxy bisphenol A vinyl ester modified resin.

Principal properties

Atlac E-Nova MA 6325 has excellent wet out and airrelease properties. It produces less foam when peroxides are added with less air inhibition resulting in a tack free cured surface.

Due to its high osmotic resistance Atlac E-Nova MA 6325 is used as a tie coat resin to eliminate blistering in marine and swimming pool applications. Since it contains less than 35% of monomer, Atlac E-Nova MA 6325 meets the SCAQMD

Atlac E-Nova MA 6325 is especially adapted to meet the requirements of hand lay up and spray up applications.

Product specifications upon delivery

Troduct specifications upon derivery						
Property	Range	Unit	TM			
Solids content, IR	65 - 67	%	2033			
Appearance	Hazy	-	2265			
Viscosity, Physica, 2 s-1, 23°C	1000 - 2000	mPa.s	2313			
Viscosity, Physica, 20 s-1, 23°C	450 - 700	mPa.s	2313			
Viscosity, Physica, 250 s-1, 23°C	250 - 350	mPa.s	2313			
Water content	0.05 - 0.10	%	2350			
Gel time from 25 to 35°C	25 - 31	Minutes	2625			
Cure time from 25°C to peak	33 - 43	Minutes	2625			
Peak temperature	125 - 155	°C	2625			

Curing conditions

Conditions: 100 g resin + 1,50 g Butanox M 50

TM 2999: Curing agent batch nr. Peroxide Condtion Butanox M 50

Properties of the liquid resin (typical values)

Property	Value	Unit	TM
Flash point	appr. 33	°C	2800
Stability, no init., dark, 25°C	6	months	-

Properties of cast unfilled resin (typical values)

Troperties of east unfilled resilf (typical values)						
Property	Value	Unit	TM			
Barcol hardness GYZJ 934-1	45	Barcol	ASTM D2580			
Tensile strength	70	MPa	ISO 527-2			
Tensile E-modulus	4.0	GPa	ISO 527-2			
Elongation at break	2-3	%	ISO 527-2			
Flexural strength	120	MPa	ISO 178			
Flexural E-Modulus	4.0	GPa	ISO 178			
Heat Deflection Temp. (HDT)	110	°C	ISO 75-A			
Water absorption, 60°C,24h	0.5	%	ISO 175			

Curing conditions

All properties are measured at 20°C unless otherwise specified. Cure system: Atlac *E-Nova* MA 6325 and 1.5% Butanox M-50. All samples were cured during 24 hrs at ambient temperature, followed by a postcure of 6 hrs at 100°C.

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Date of issue: March, 2011 Version: 011934/5.0

Page 1 of 1



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Guidelines before use

Before use, the resin should be conditioned at a well-defined, application dependant temperature (usually 15°C minimum for a MEKP / Co cure). Stir the product before blending.

Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°C and the properties might change during storage. The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light and/or higher temperatures. Store in dark and in 100% light tight containers only.

Material Safety

A material safety data sheet for the product is available on request.

Test methods

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

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Page 2 of 2