

VINYLESTER 702-A

DESCRIPTION

Vinylester 702-A Bisphenol-A epoxy based, accelerated, medium- high reactivity, low viscosity vinyl ester resin which is specially designed to Infusion and RTM applications.

USE

Vinylester 702-A has excellent adhesion with high corrosion resistance and high resistance to heat during the time of service. Besides, the high performance of **Vinylester 702-A** against acids and alkalis make it suitable for producing chemical tanks, equipment production for chemical industry, electrolyze cups and coverings or linings against corrosion with confidence.

Vinylester 702-A provides a high flexibility with high mechanical resistance properties. Owing to these properties **Vinylester 702-A** is used to produce machines and electrical parts, windsurf, speed craft, race vessel, big ships parts and constructions subjected to high static and dynamic loads when reinforced by fiberglass.

Because of the high resistance of **Vinylester 702-A**, it can be used in any field where there is contact with water, like producing hot water and sun collectors, boiler tanks, thermal bath equipment, fishery pools, ship-building.

APPROVAL

Vinylester 702-A is approved by the Lloyd's Register.

Application Methods	<input type="radio"/> OPTIONAL	<input checked="" type="radio"/> YES
Hand lay-up		<input checked="" type="radio"/>
Spray-up		<input type="radio"/>
Filament Winding		<input checked="" type="radio"/>
Continuous Laminating		<input checked="" type="radio"/>
Casting		<input type="radio"/>
Resin Transfer Moulding (RTM)		<input checked="" type="radio"/>
Cold Pres		<input checked="" type="radio"/>
Hot Press (Sheet-Bulk Moulding Compound)		
Infusion		<input checked="" type="radio"/>

CHEMICAL STRUCTURE	<input type="radio"/> OPTIONAL	<input checked="" type="radio"/> YES
	Pre-accelerated	<input checked="" type="radio"/>
	Reactivity	Medium-high
Modification	N/A	Version Vinylester 702 (non-thixotropic)

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PROPERTIES OF LIQUID FORM	METHOD	MARGIN	VALUE
Colour	Observation		Clear
Density	ISO 1675	± 5 %	1,004 g/cm ³
Refraction Index	ISO 0489	± 5 %	1.5
Acid Value	ISO 2114	-	max. 7 mg KOH/g
Viscosity Brookfield®	ISO 2555	± 20 %	220 cp
Thixotropy	-	-	Thixotropic
Gel Time **	ISO 2535	± 40 %	30'
Monomer Content	-	± 10 %	46 %
Shelf life at 20 °C	-	-	6 mths.

* Measured at 23 °C, 50 rpm spindel 4

** Measured at 23 °C, + 2,0 % MEKP (PEROXAN ME 60 L)

PROPERTIES OF CURED RESIN***	METHOD	MARGIN	VALUE
Heat Deflection Temperature (HDT)	ISO 0075-A	± 10 %	98 °C
	ISO 0075-B		102 °C
Water Absorption	ISO 0062	± 10 %	0,140 %
Barcol Hardness (Barcol 934-1)	ASTM-D 2583	± 10 %	36
Total Volume Shrinkage	ISO 2114	± 10 %	7,7 %

MECHANICAL PROPERTIES OF CURED RESIN ***	METHOD	MARGIN	VALUE
Flexural Strength	ISO 0178	± 10 %	155 MPa
Flexural Modulus	ISO 0178	± 10 %	3500 Mpa
Elongation at Break	ISO 0178	± 10 %	6,00 %
Tensile Strenght	ISO 0527	± 10 %	76 Mpa
Modulus of Elasticity in Tensile	ISO 0527	± 10 %	3000 Mpa
Elongation at Break	ISO 0527	± 10 %	5 %
Izod Impact Strength	ISO 0180	± 10 %	16 kJ/m ²

*** Before the mechanical tests, the cured resin is post-cured

06/2016

All information is given, based upon our best knowledge, but without liability to us. Data has been obtained by laboratory experiments made by our supplier. Since the condition under which the product is consumed is outside of our control, the product should be tested before use.