TAP Plastics Marine Vinyl Ester Resin

Our High Performance Marine Resin is 100% Vinyl Ester. It is suitable for hand lay-up.

- Meets MIL-R-7575C
- Low Water Absorption
- Superior Blister Resistance
- High Strength and Toughness
- Tack-Free Surface
- Faster Lamination and Buildup of Layers
- Fast Wet-Out
- High-Heat Distortion Temperature
- Thixotropic-Resistance to Sagging and Draining
- Stable Gel Time
- Ease of Handling

Typical Liquid Properties @ 75°F

Viscosity, cps	**500**
Nonvolatile, %	**55**
Weight per Gallon, lb	**8.7**
Thixotropic Index	**3.0**
Flash Point (Seta closed up °F)	**89**
Shelf Life (minimum) months	**3**
Color: Opaque Amber	

Typical Mechanical Properties

	ASTM Test Method	Clear Casting
Barcol Hardness	**D-2583**	**44**
Heat Distortion Temperature °F	**D-648**	**241**
Flexural Strength, psi	**D-790**	**21,000**
Flexural Modulus x10^5 psi	**D-790**	**5.1**
Tensile Strength, psi	**D-638**	**12,000**
Tensile Modulus, x10^5 psi	**D-638**	**5.1**
Tensile Elongation @ break %	**D-638**	**4.0**
Water Absorption 24 hr @°25C, %wt gain	**D-570**	**0.17**

Rev. 4

MARINE

VINYL ESTER RESIN

HIGH PERFORMANCE

- Thixotropic
- 100% Vinyl Ester
- Superior Blister Resistance
- High Strength and Toughness
- User Friendly
- Corrosion Resistant

WARNING: Flammable Liquid.
Skin sensitizer and eye irritant.
See CAUTIONS on side panel.

Net 1 Quart • 32 fl oz

Use With MEKP Catalyst

Quality Products Since 1952

TAP Plastics Inc. San Leandro, CA 94577
the fantastic plastic place • www.tapplastics.com

TAP Plastics Marine Vinyl Ester Resin

WARNING: Flammable Liquid! Harmful if inhaled.
KEEP OUT OF REACH OF CHILDREN.

Ingredients: Styrene Monomer (CAS No. 100-42-5). Amorphous Silicon Dioxide (CAS No. 7631-86-9). This resin product contains 48% Styrene Monomer.

CAUTIONS: Keep away from heat, sparks, and open flame. No smoking. Do not breathe vapors or mist. Do not get in eyes, on skin, or clothing. Wear protective equipment. Keep container closed when not in use. **Use only with adequate ventilation**. Wash thoroughly after handling. Wash clothing before reuse.

WARNING: Use of this product will expose you to chemicals known to the State of California to cause cancer.

Health Hazards: Causes eye, skin, nose, and throat irritation. High concentrations may affect the central nervous system causing dizziness, headache, or nausea.

FIRST AID:

Skin: Wash with soap and water.

Eyes: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

Inhalation: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

Ingestion: DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical aid.

- **TAP Plastics MEKP Catalyst**
- **Stir Sticks**
- **Mat Roller**
- **Gloves**
- **Acetone (Utensil Cleanup)**
- **Brushes**
- **Squeegee**
- **Mixing Containers**
- **Replacetone (Hand Cleanup)**

Instructions: Read Instructions and Cautions before starting project. All preparation must be completed before mixing catalyst to assure maximum working time before resin gels. Gel time at 75°F is 15 to 20 minutes. Peak exotherm is 350°F. Do not work in direct sunlight. Resin and work area should be between 75° and 95°F to ensure satisfactory results.

Surface Preparation: Surfaces must be clean, dry, and free from wax, release agents, dust, etc. Secondary bond will be adversely affected on resin-rich areas; laminates that have been exposed to heat or direct sunlight; or if more than 48 hours has lapsed between laminates. If any of these conditions occurred a thorough sanding and cleaning of the substrate is recommended prior to secondary laminate application.

Mixing Catalyst: Use only TAP Plastics MEKP Catalyst. Mix catalyst with resin thoroughly and apply mixture immediately. Catalyst levels should be within a range of 1.0 to 2.5% based on the weight of resin (8.7 lbs per gallon).

	per liquid oz	per pt	per qt
Resin			
Catalyst	10-15 drops	1/4 oz	1/2 oz

When using TAP Vinyl Ester as a final topcoat, add TAP Surface Curing Agent to ensure a completely tack-free surface.

Storage: To ensure maximum stability and to maintain optimum resin properties, resin should be stored in closed containers at temperatures below 75°F and away from sunlight. Inventory should be used within 90 days of purchase.

WARRANTY

TAP products are manufactured to quality specifications but should be tested to determine their suitability for your application. Because we have no control over working conditions or methods, our liability does not exceed the value or replacement of this product.

TAP Plastics Inc. • San Leandro CA 94577
Visit us at: tapplastics.com