



Section 1: Description

Fiberglass Warehouse ISO Polyester Resin is an ISO, thixotropic, polyester resin designed for fabrication of small to large FRP parts at an ambient temperature. Fiberglass Warehouse ISO Polyester Resin is pre-promoted for curing at room temperature with the addition of methyl ethyl ketone peroxide (MEKP) initiator. Fiberglass Warehouse ISO Polyester Resin is designed to be used with both the spray-up and hand lay application technique.

Features:

- Extremely fast wet out and Roll out
- Good adhesion with gel coat
- Good impregnation
- Moderate trim time
- High Strength
- Corrosive resistance

Uses:

- Yacht/Boat Construction
- Manufactured parts
- Spray up process
- Hand Lay-up application
- Mold Construction

Section 2: Typical Properties*1

Uncured Resin:

Test	Value
Viscosity, 77° F	400-500 cps
Specific Gravity, 77° F / 77° F	1.1
Curing Property, 77° F	1% MEKP 9% active ORCA 981
Gel Time 77° F	Variable
Time to Peak	Variable
Peak Exothermic Temp.	140° F- 194° F
Thix Index	2.2 - 2.6

* 1. Values are representative. Specification limits are available upon request.

The information herein is general information designed to assist customers in determining whether Fiberglass Warehouse products are suitable to their applications. Fiberglass Warehouse products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. Nothing herein constitute any warranty express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.



Cured Resin*2:

Test	Value
Tensile Strength	8,532 psi
Flexural Strength	16,637 psi
Flexural Modulus	597,380 psi
Tensile Modulus	455,021psi
Elongation (%)	1.7%
Barcol Hardness, 934-1	48
Heat Distortion Temp.	194° F

Laminated Physical Properties*3:

Test	Value
Tensile Strength	16,352 psi
Flexural Strength	25,168 psi
Flexural Modulus	1,208,650 psi
Tensile Modulus	1,109,114 psi
Elongation (%)	1.4 psi

 -* 2. Thickness: 3 mm
 After Cure: 176°F x 2hrs, 248°F x 2hrs

* 3. #450 Chopped Strand Mat 3 plies
 Glass Content: 33 %
 After Cure: 176°F x 2hrs, 248°F x 2hrs

Section 3: Handling & Storage

Handling & Storage:

As with all polyester resin, rate and degree of cure are a function of initiator concentration and of temperature. Resin and work area should be between 70°F and 95°F to ensure satisfactory results. Initiator levels should be within a range of 1.0-2.2% based on weight of resin. The use of initiator levels outside of this range may result in an inadequate cure, with laminates exhibiting moderate to severe post cure after demolding.

Fiberglass Warehouse ISO Polyester Resin is available in 55-Gallon metal drums.

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 75°F and away from heat sources and sunlight. All storage areas and containers should conform to local fire and building codes. Drum stock should be stored away from all sources of flame or combustion. Inventory levels should be kept to a reasonable min with first-in, first-out stock rotation.

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Read and understand the Safety Data Sheet before working with this product

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