

Technical Data Sheet for Fiberglass Warehouse 216 Low Styrene, Low VOC Ortho/DCPD Polyester Resin

According to ISO 11014:2010

Date: 25 Jan-2024

Section 1: Description

Fiberglass Warehouse 216 Low Styrene, Low VOC Ortho/DCPD GP, thixotropic, polyester resins designed for fabrication of small to large FRP parts at an ambient temperature. Fiberglass Warehouse 216 pre-promoted for curing at room temperature with the addition of methyl ethyl ketone peroxide (MEKP) initiator. Fiberglass Warehouse 216 designed to be used with both the spray-up and hand lay-up application technique.

Features:

- Extremely fast wet out and Roll out
- Low Styrene Ortho
- Low VOC Ortho (below 35% VOC)
- Thixotropic
- Moderate trim time
- Early development of Barcol Hardness
- Little or no pattern transfer through gel-coat surfaces

Uses:

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

Section 2: Typical Properties*1

Uncured Resin:

Test	Value
Viscosity, 77° F	500-600cps
Specific Gravity, 77°F	1.0 - 1.2
Curing Property, 77° F	1% MEKP 9% active ORCA S980 or ORCA S950
Gel Time 77° F	Variable
Time to Peak	Variable
Thixotropic Index	2.0 - 3.0
Volatile Content	31% - 34.9%

^{* 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.



Technical Data Sheet for Fiberglass Warehouse 216 Low Styrene, Low VOC Ortho/DCPD Polyester Resin

According to ISO 11014:2010

Date: 25 Jan-2024

Cured Resin*2:

Test	Value
Tensile Strength	8,847 psi
Flexural Strength	16,679 psi
Flexural Modulus	552,885 psi
Tensile Modulus	145,038psi
Barcol Hardness, 934-1	45
Heat Distortion Temp.	145° F - 160°F

Laminated Physical Properties*3:

Test	Value
Tensile Strength	16,645 psi
Flexural Strength	21,500 psi
Flexural Modulus	882,320 psi
Tensile Modulus	996,634 psi
Barcol Hardness, 934-1	65.0

-* 2. Thickness: 3 mm After Cure: 176°F x 6hrs

* 3. #450 Chopped Strand Mat 3 plies

After Cure: 176°F x 6hrs

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 216 available in gallon.

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 77°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.

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.