



# Structural Lay-Up Resin

**Type** • Structural Lay-Up Resin is a prepromoted and thixotropic low profile type unsaturated polyester resin. It is formulated to comply with California Rule 1162 and Rule 50 by means of a maximum VOC content of 35%.

**Recommended Use** • This resin is suitable for small to large fiberglass reinforced plastic (FRP) structures where high production rates at room temperature are required. Structural Lay-Up Resin is formulated for curing with MEKP catalyst and may be used in fabrication of general FRP articles using either hand lay-up or spray up fabrication procedures to prevent air inhibition.

### Typical Inspection of Liquid Resin

Color	Amber Translucent
Monomer Content, %	34.4
Viscosity, Brookfield Model, LVF #3 Spindle @ 60 rpms, cps	475
Specific Gravity	1.05 - 1.15
Thixotropic Index, minimum	2.00
Weight/Gallon, Pounds	9.16
Storage Stability @ 25°C, months	6

### Typical Reactivity - 100 grams (3.53 oz) casting @ 25°C

Catalyst	1.25% MEKP - 9%
Gel Time, minutes	20
Peak Temperature °C (°F)	160 (320)

### Typical Physical Properties

*Clear Casting with 1.25% MEKP, overnight room temperature cure, 2 hr. post cure*

Barcol Hardness	ASTM D-2583-75	43
Heat Deflection Temp. °C (°F)	ASTM D-648-72	74 (165)
Tensile Strength, psi	ASTM D-638-80	7,555
Tensile Elongation, % at break	ASTM D-638-80	1.7
Flexural Strength	ASTM D-790-80	11,610
Compressive Strength @ Yeild	ASTM D-695-80	18,520
Water Absorption, % 2 hr. @ rm. tp.	ASTM D-570-77	0.08
Water Absorption, % 24 hr. rm. tp.	ASTM D-570-77	0.66

### Disclaimer and Limitation of Warranty

The information herein is to assist customers in determining whether this product is suitable for their applications. Our products are intended for sale to commercial and industrial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

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