



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 Opaque
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

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