



**EL-360  
EPOXY LAMINATING  
& INFUSION SERIES  
HIGH PERFORMANCE  
COMPOSITES**



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**DESCRIPTION**

EL-360 is an undiluted, 100% solids epoxy system formulated for the applications of vacuum infusion molding, laminating, filament winding, pultrusion and compression molding. This system has excellent mechanical properties and good cure characteristics at ambient temperature. This EL-360 resin series gives the composites engineer a choice of three hardener options to work with; EL-360 fast hardener, EL-360-1 standard hardener and EL-360-2 slow hardener.

**TYPICAL HANDLING CHARACTERISTICS @ 77°F (25°C)**

	<u>EL-360 Hardener</u>	<u>EL-360-1 Hardener</u>	<u>EL-360-2 Hardener</u>
Mix Ratio (parts by weight).....	100R/27H.....	100R/30H.....	100R/32H
Mixed Density.....	1.16 g/cc.....	1.15 g/cc.....	1.14 g/cc
Mixed Viscosity.....	326 cps.....	326 cps.....	280 cps
Work Life @ 25°C (ASTM D-2471).....	44 min (200 grams).....	70 min (200 grams).....	560 min(100 grams) >180 minutes (1000 grams)
Ambient Cure Schedule.....	7 days at ambient temp.....	7 days at ambient temp.....	7 days at ambient temp
Cure Schedule (optimum).....	8 hours @ 176°F (80°C) ...	8 hours @ 176°F (80°C)....	8 hours @ 176°F (80°C)
Mixed Color.....	Clear Light Amber.....	Clear Light Amber.....	Clear Light Amber
Shelf Life Resin and Hardeners (in original unopened containers).....	2 years (for all)		

**TYPICAL PHYSICAL PROPERTIES (neat resin heat cured 8 hours at 176°F (80°C))**

	<u>EL-360R/EL-360H</u>	<u>EL-360R/EL-360-1H</u>	<u>EL-360R/EL-360-2H</u>
Tensile Strength.....	10,137psi (70MPa).....	10,137psi (70MPa).....	10,684psi (74MPa)
Tensile Modulus.....	411,993psi (2,841MPa)....	411,993psi (2,841MPa)....	463,075psi (3,193MPa)
Elongation.....	5%.....	5%.....	4%
Flexural Strength.....	17,733psi (122MPa).....	17,733 psi (122MPa).....	19,040psi (131MPa)
Flexural Modulus.....	460,000psi (3,172MPa)....	460,000psi (3,172MPa)....	450,000psi (3,103MPa)
Elongation at Flexural Strength.....	6%.....	6%.....	6%
Glass Transition Temperature (by DSC).....	182°F (83°C).....	182°F (83°C).....	*170°F (77°C)
Heat Deflection Temperature @ 66 psi.....	167°F (75°C).....	167°F (75°C).....	*164°F (73°C)
Compressive Strength.....	13,754psi (95MPa).....	13,754psi (95MPa).....	14,565psi (100MPa)
Izod Impact Strength.....	12.44 in-lbf/in.....	12.44 in-lbf/in.....	12 in-lbf/in
Moisture Absorption			
24 hours immersion.....	0.17%.....	0.17%.....	n/a
168 hours immersion.....	na.....	0.54%.....	n/a

\*Denotes samples conditioning cure was 6 hours @ 158°F (70°C) before testing.

EL-360 Series Tech/Revised 12/30/14  
Supersedes 6/19/14

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