



EL-302 PC EPOXY LAMINATING SERIES

PRODUCT BULLETIN



ROOM TEMP
WHITE

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DESCRIPTION

EL-302-PC is a white room temperature laminating system with excellent handling characteristics, low viscosity and high strength. Its low toxicity makes it ideal for laminated tooling and production applications. EL-302-PC exhibits excellent dimensional stability, high mechanical strength and excellent cloth penetration (wet-out) without run-out. Use EL-302-PC with ADTECH epoxy surface coat systems ES-201-PC or ES-218 for high early strength properties. EL-302PC Resin is now available with three hardener options: EL-302PC Hardener, EL-302PC-1 or EL-302PC-2 Hardener (see work life details listed below). **Typical applications include: prototypes, keller models, master models, patterns and core boxes, checking fixtures, production parts, trim fixtures, holding fixtures, duplications and router and drill fixtures.**

HANDLING CHARACTERISTICS @ 25°C/77°F

Mix Ratio (parts by weight with EL-302PC Hardener or EL-302PC-1 Hardener)	100R/16H
Mix Ratio (parts by volume with EL-302PC Hardener or EL-302PC-1 Hardener)	4.3R/1H
Mix Ratio (parts by weight with EL-302PC-2 Hardener)	100R/19H
Density (mixed)	12.0 lbs/gal
Density (mixed)	0.051 lbs/cu in
Specific Gravity	1.40 grams/cc
Mixed Viscosity	2,500-3,500 cps
Work Life (EL-302PC Hardener @ 232 gram mass).....	28-34 minutes
Work Life (EL-302PC-1 Hardener @ 232 gram mass)	15 minutes
Work Life (EL-302PC-2 Hardener @ 200 gram mass)	60 minutes
Demold Time.....	8-16 hours
Complete Cure	3-5 days
Mixed Color	White
Shelf Life Resin & Hardener (in original unopened containers)	2 years

PHYSICAL PROPERTIES

6 Layer, 10 Ounce Glass Fabric Laminate:

Ultimate Tensile Strength	27,930 psi
Tensile Modulus.....	2.16 x 10 ⁶ psi
Ultimate Flexural Strength	33,220 psi
Flexural Modulus.....	1.83 x 10 ⁶ psi
Heat Deflection Temperature	168°F

Cast Bar:

Ultimate Compressive Strength.....	13,840 psi
Notched Izod Impact Strength.....	13.9 in-lbs
Hardness.....	85 Shore D
Shrinkage	0.0002 in/in
Coefficient of Thermal Expansion	1.59 x 10 ⁻⁵ in/in/°F
Tensile Elongation	1.09%

EL-302PC Series Tech/Revised 3/5/10
Supersedes 4/18/08

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