

# Product Bulletin

# CASS POLYMERS

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SC-9001 Registered



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EL-302-PC  
EPOXY LAMINATING RESIN SYSTEM  
ROOM TEMP  
WHITE

0302

## 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.

## USES

Prototypes	Patterns & Core Boxes	Checking Fixtures
Keller Models	Production Parts	Trim Fixtures
Master Models	Holding Fixtures	Duplications
Router & Drill Fixtures		

## HANDLING CHARACTERISTICS @ 25°C/77°F

Mix Ratio (parts by weight) .....	100R/16H
(parts by volume) .....	4.3R/1H
Density (Mixed) .....	12.0 lbs/gal
.....	0.051 lbs/cu in
Specific Gravity .....	1.40 grams/cc
Mixed Viscosity .....	3,000-6,500 cps
Work Life (232 gm Mass) .....	28-34 minutes
Demold Time .....	8-12 hours
Complete Cure .....	3 days
Color Resin - White Hardener - Clear .....	Mixed - White
Shelf Life (Storage at ambient temperature) .....	1 year

## PHYSICAL PROPERTIES

### 6 Layer, 10 Ounce Glass Fabric Laminate

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

### CAST BAR

Ultimate Compressive Strength .....	13,840 psi
Impact Strength (Notched IZOD) .....	13.9 in-lbs
Hardness .....	85 Shore D
Shrinkage .....	0.0002 in/in
Coefficient of Thermal Expansion .....	$1.59 \times 10^{-5}$ in/in/°F
Tensile Elongation .....	

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