



**EL-302 PC  
EPOXY LAMINATING  
SERIES  
ROOM TEMPERATURE,  
WHITE**



**www.axson-technologies.com**  
**31200 Stephenson Hwy**

**800.344.7776**  
**Madison Heights, MI 48071**

**axsonmh@axson.com**  
**Ph 248.588.2270 Fax 248.588.5909**

**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.**

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

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 <b>EL-302PC-2 Hardener</b> ) .....	100R/19H
Specific Gravity .....	1.40 g/cc
Mixed Viscosity .....	2,500-3,500 cps
Work Life ( <b>EL-302PC Hardener @ 232 gram mass</b> ).....	28-34 minutes
Work Life ( <b>EL-302PC-1 Hardener @ 232 gram mass</b> ) .....	15 minutes
Work Life ( <b>EL-302PC-2 Hardener @ 200 gram mass</b> ) .....	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

**TYPICAL PHYSICAL PROPERTIES (6 Layer, 10 Ounce Glass Fabric Laminate):**

Ultimate Tensile Strength .....	27,930psi (193MPa)
Tensile Modulus .....	2,160,000psi (14,893MPa)
Ultimate Flexural Strength .....	33,220psi (229MPa)
Flexural Modulus.....	1,830,000psi (12,617MPa)
Heat Deflection Temperature .....	168°F (76°C)

**Cast Bar:**

Ultimate Compressive Strength.....	13,840psi (95MPa)
Notched Izod Impact Strength.....	13.9 in-lbs
Hardness .....	85 Shore D
Shrinkage .....	0.0002 in/in
Coefficient of Thermal Expansion: (ppm/°F (°C)) .....	16 (29)
Tensile Elongation .....	1.1%

EL-302PC Series Tech/Revised 12/30/14  
Supersedes 5/19/14

The information contained in this technical data sheet results from research and tests conducted in our laboratories under precise conditions. Seller cannot anticipate all conditions under which seller's products, or the products of other manufacturers in combination with seller's products, may be used. It is the responsibility of the user to determine the suitability of the Axson Technologies' products, under their own conditions, before commencing with the proposed application. In no event shall Axson Technologies, Inc. be liable for any direct, indirect, punitive, incidental, special, and/or consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.

<b>AXSON TECHNOLOGIES US</b> +1 248 588 2270 axsonmh@axson.com axson-na.com	<b>CHINA</b> +86 21 58 68 30 37 marketing.china@axson.com	<b>GERMANY</b> +49 6 07 44 07 11-0 verkauf@axson.com	<b>INDIA</b> +91 20 25 56 07 10-11 info.india@axson.com	<b>ITALY</b> +39 02 96 70 23 36 axson@axson.it	<b>JAPAN</b> +81 5 64 26 25 91 sales.japan@axson.com	<b>FRANCE</b> <b>Global Headquarters</b> +33 1 34 40 34 60 axson@axson.com axson-technologies.com
	<b>MEXICO</b> +52 55 52 64 49 22 marketing@axson.com.mx	<b>MIDDLE EAST</b> +971 7 2432227 axsonmiddleeast@axson.com	<b>SLOVAKIA</b> +42 1 76 42 25 26 axson.sk@axson.com	<b>SPAIN</b> +34 9 32 25 16 20 spain@axson.com	<b>U.K.</b> +44 16 38 66 00 62 sales.uk@axson.com	