



**EL-300  
EPOXY LAMINATING  
SYSTEM  
FDA FOOD APPROVABLE  
LAMINATING SYSTEM**

**PRODUCT BULLETIN**



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**DESCRIPTION**

EL-300 is a clear, 100% solids epoxy system developed for all types of laminating applications in composites and civil engineering. EL-300 provides maximum cloth penetration (wet-out), is low viscosity, low odor, and exhibits excellent cured physical properties. EL-300 can also be used as an adhesive or coating due to its ability to cure in a thin film, creating a very strong and durable bond. EL-300 resin/hardener, when properly cured for food contact applications, is approvable under U.S. Food, Drug and Cosmetic Act as amended under Food Additive Regulation 21 CFR 175.300.

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

Mix Ratio (parts by weight).....	100R/13H
Mixed Density.....	1.10 grams/cc
.....	9.18 lbs/gal
Mixed Viscosity .....	1,950 – 2,250 cps
Work Life (113 gram mass).....	28 minutes
(500 gram mass).....	25 minutes
Complete Cure .....	3-5 days at room temperature
Mixed Color .....	Clear Light Amber
Shelf Life .....	24 Months

**TYPICAL PHYSICAL PROPERTIES @ 25°C/77°F**

(NEAT RESIN FOLLOWING 7 DAY CURE)

Tensile Strength .....	11,400 psi
Tensile Elongation.....	4.4%
Flexural Strength.....	13,900 psi
Flexural Modulus.....	440,000 psi
Compressive Strength.....	16,300 psi
Heat Deflection Temperature @ 264 psi.....	111°C/232°F
Impact Strength.....	6.00 in-lbf/in
Hardness .....	85 Shore D

**CHEMICAL RESISTANCE**

(120 Day Immersion / Mass % Weight Change)

Sulfuric Acid (30% solution) .....	3.10%
Sulfuric Acid (3% solution) .....	2.66%
Hydrochloric Acid (36% solution) .....	5.58%
Hydrochloric Acid (10% solution) .....	3.15%
Nitric Acid (40% solution) .....	Destroyed
Nitric Acid (10% solution) .....	3.95%
Ammonium Hydroxide (28% solution).....	1.79%
Ammonium Hydroxide (10% solution).....	1.73%
Acetic Acid (25% solution) .....	14.2%
Ethyl Alcohol (95% solution) .....	0.86%
Citric Acid (10% solution) .....	1.65%
Distilled Water .....	1.70%

EL300 Tech / New 4/26/07



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