



## CER-112 SERIES

EPOXY LAMINATING  
SYSTEMS

PRODUCT BULLETIN



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### DESCRIPTION

The CER-112 Series features clear, low viscosity, two-part epoxy systems which exhibit excellent wet-out and air release. The CER-112 Series produces material of exceptionally high strength, with a range of physical properties and handling characteristics to address a variety of applications with fabrics such as fiberglass, Kevlar and graphite.

### LAMINATING SYSTEM

HANDLING CHARACTERISTICS @ 25°C/77°F	CER-112R/ CER-112H	CER 112-2R CER-112-2H	CER-112R/ CER 112-5H
MIX RATIO: PARTS BY WEIGHT	100R/22H	100R/40H	100R/40H
MIX RATIO: PARTS BY VOLUME	4R/1H	2.2R/1H	2.101R/1H
DENSITY: MIXED	9.2lbs/gal 0.039 lbs/cu in	9.2lbs/gal 0.038 lbs/cu in	9.40lbs/gal .0388 lbs/cu in
SPECIFIC GRAVITY	1.07 gms/cc	1.05 gms/cc	1.07 gms/cc
MIXED VISCOSITY	250-400 cps	1150 cps	540 cps
WORK LIFE	35-50 min	80 min	130-180 min
GRAMS MASS	330g	280g	210g
DEMOLD TIME	24 hours	24 hours	36 hours
COMPLETE CURE	48 hours	48 hours	7 days
WATER ABSORPTION	0.236%	0.204%	0.26%
COLOR	Clear	Clear	Amber
SHELF LIFE (in original unopened containers)	Two Years	Two Years	Two Years
PHYSICAL PROPERTIES	(6 layer, 10 ounce glass fabric laminate)		
ULTIMATE TENSILE STRENGTH	37,660 psi	34,390 psi	32,930 psi
TENSILE MODULUS	2.41 x 10 <sup>6</sup> psi	2.03 x 10 <sup>6</sup> psi	1.68 x 10 <sup>6</sup> psi
ULTIMATE FLEXURAL STRENGTH	55,270 psi	33,580 psi	27,930 psi
FLEXURAL MODULUS	5.54 x 10 <sup>6</sup> psi	1.38 x 10 <sup>6</sup> psi	1.56 x 10 <sup>6</sup> psi
PHYSICAL PROPERTIES	(Cast Bar)		
ULTIMATE COMPRESSIVE STRENGTH	10,130 psi	8,828 psi	6,842 psi
IMPACT STRENGTH-NOTCHED IZOD	4.84 in lbs	5.30 in lbs	14.87 in lbs
HEAT DEFLECTION TEMPERATURE @ 66 PSI	122.96°F	134.54°F	114.44°F
HARDNESS	80 Shore D	81 Shore D	78 Shore D
SHRINKAGE	0.0001 in/in	0.0002 in/in	0.0002 in/in
COEFFICIENT OF THERMAL EXPANSION	4.16 x 10 <sup>-5</sup> in/in/°F	4.33 x 10 <sup>-5</sup> in/in/°F	5.25 x 10 <sup>-5</sup> in/in/°F
TENSILE ELONGATION	4.0 +/- 1%	7.8%	8.513%

CER Series Tech/Revised 6/30/10  
Supersedes 2/1/10

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