

# Clear Laminating System

Clear, UV Stable Epoxy Resin for high colorwork laminations, coatings, and marine epoxy applications.

## Product Overview

CLR is a clear, UV stabilized, general use, laminating resin for composites, coating, and adhesive applications. It has an ideal viscosity for a wide range of applications that use hand layup techniques with fast room temperature cures. CLR is a USDA Certified BioPreferred® Product with 29% biobased content.

**CLX**  
EXTRA FAST

**CLF**  
FAST

**CLS**  
SLOW

### MECHANICAL DATA

<b>Tensile Modulus</b> (ASTM D638)	450,000 psi (3.1 GPa)	440,000 psi (3.0 GPa)	468,000 psi (3.2 GPa)
<b>Tensile Strength</b> (ASTM D638)	9,500 psi (65.5 MPa)	9,500 psi (65.5 MPa)	9,800 psi (67.6 MPa)
<b>Elongation</b> (ASTM D638)	6%	5%	6%
<b>Flexural Modulus</b> (ASTM D790)	440,000 psi (3.0 GPa)	440,000 psi (3.0 GPa)	430,000 psi (2.9 GPa)
<b>Flexural Strength</b> (ASTM D790)	14,000 psi (96.5 MPa)	13,500 psi (93.1 MPa)	14,580 psi (100.5 MPa)
<b>Compression Strength</b> (ASTM D695)	11,330 psi (78.1 MPa)	11,330 psi (78.1 MPa)	12,520 psi (86.3 MPa)
<b>T<sub>g</sub> Ultimate</b> (DSC, midpoint)	148°F (64°C)	151°F (66 °C)	142°F (61°C)
<b>Hardness</b> (Shore D)	70-80	70-80	70-80

### PROCESSING DATA

<b>Mix Ratio</b> (by volume)	2:1	2:1	2:1
<b>Mix Ratio</b> (by weight)	100:43	100:45	100:43
<b>Viscosity</b> (A/B/Mixed @ 77°F/25°C)	2300/180/990	2300/280/1040	2300/140/700
<b>Component Density</b> (specific density @ 77°F/25°C)	1.14 (resin), 0.98 (hardener)	1.14 (resin), 1.01 (hardener)	1.14 (resin), 0.98 (hardener)
<b>Mixed Density</b> (specific density @ 77°F/25°C)	1.08	1.09	1.08
<b>Pot Life</b> (@ 77°F/25°C)	18 min	21 min	43 min
<b>Tack Free Time</b> (@ 95°F/35°C)	2 hrs	4 hrs	8 hrs
<b>Recommended Full Cure</b>	7 days @ 77°F/25°C	7 days @ 77°F/25°C	7 days @ 77°F/25°C Post cure recommended

### ENVIRONMENTAL DATA

<b>VOC Content</b> (ASTM D2369)	0.16 lbs/gal (19.5 g/L)	0.26 lbs/gal (31.5 g/L)	0.00 lbs/gal (0.23 g/L)
<b>Mixed Biobased Carbon Content</b> (ASTM D6866)	20%	20%	21%

This technical information is provided in good faith and is based on the best knowledge of Gougeon Brothers, Inc. We cannot guarantee this data because conditions of product use are beyond our control.  
TDS revised May 2020. © Gougeon Brothers, Inc. 2020