

Clear Laminating System

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

Product Overview

CLR is a clear, UV stabilised, 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			
Tensile Modulus (ASTM D638)	3.1 GPa	3.0 GPa	3.2 GPa
Tensile Strength (ASTM D638)	65.5 MPa	65.5 MPa	67.6 MPa
Elongation (ASTM D638)	6%	5%	6%
Flexural Modulus (ASTM D790)	3.0 GPa	3.0 GPa	2.9 GPa
Flexural Strength (ASTM D790)	96.5 MPa	93.1 MPa	100.5 MPa
Compression Strength (ASTM D695)	78.1 MPa	78.1 MPa	86.3 MPa
Tg Ultimate (DSC, midpoint)	64°C	66°C	61°C
Hardness (Shore D)	70-80	70-80	70-80
PROCESSING DATA			
Mix Ratio (by volume)	2:1	2:1	2:1
Mix Ratio (by weight)	100:45	100:45	100:43
Viscosity (A/B/Mixed @ 25 °C)	2300/180/990 mPas	2300/280/1040 mPas	2300/140/700 mPas
Component Density (specific density @ 25°C)	1.14 (resin), 0.98 (hardener) gcm ⁻³	1.14 (resin), 1.01 (hardener) gcm ⁻³	1.14 (resin), 0.98 (hardener) gcm ⁻³
Mixed Density (specific density @ 25°C)	1.08 gcm ⁻³	1.09 gcm ⁻³	1.08 gcm ⁻³
Pot Life (@ 25°C)	18 min	21 min	43 min
Tack Free Time (@ 35°C)	2 hrs	4 hrs	8 hrs
Recommended Full Cure	7 days @ 25°C	7 days @ 25°C	7 days @ 25°C, Post cure recommended
ENVIRONMENT DATA			
VOC Content (ASTM D2369)	19.5 g/l	31.5 g/l	0.23 g/l
Biobased Carbon Content (ASTM D6866)	20%	20%	21%

These are typical properties and cannot be construed as a specification. The end users should test the products to ensure the products are suitable for the intended application. Any information, data, advice or recommendation published by Wessex Resins or obtained from Wessex Resins by other means and whether relating to Wessex Resins' materials or other materials, is given in good faith and believed to be reliable.