

Optically Brightened Laminating System

Optically brightened with enhanced UV resistance package for white surfboard and marine epoxy applications.

Product Overview

BRT is an optically brightened, clear, UV stabilized, general use laminating resin for white surfboard lamination and hot coating. Based on Entropy Resins CLR – Clear Epoxy Resin, BRT can be paired with all CLR Clear Hardeners. BRT is a USDA Certified BioPreferred® Product with 30% biobased content.

CLX
EXTRA FAST

CLF
FAST

CLS
SLOW

MECHANICAL DATA

Tensile Modulus (ASTM D638)	450,000 psi (3.1 GPa)	440,000 psi (3.0 GPa)	468,000 psi (3.2 GPa)
Tensile Strength (ASTM D638)	9,500 psi (65.5 MPa)	9,500 psi (65.5 MPa)	9,800 psi (67.6 MPa)
Elongation (ASTM D638)	6%	5%	6%
Flexural Modulus (ASTM D790)	440,000 psi (3.0 GPa)	440,000 psi (3.0 GPa)	430,000 psi (3.0 GPa)
Flexural Strength (ASTM D790)	14,000 psi (96.5 MPa)	13,500 psi (93.1 MPa)	14,580 psi (100.5 MPa)
Compression Strength (ASTM D695)	11,330 psi (78.1 MPa)	11,330 psi (78.1 MPa)	12,520 psi (86.3 MPa)
Tg Ultimate (DSC, midpoint)	145°F (63°C)	133°F (56 °C)	135°F (57°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)	100:43	100:44	100:43
Viscosity (A/B/Mixed @ 77°F/25°C)	2040/180/1160	2040/280/1100	2040/140/800
Component Density (specific density @ 77°F/25°C)	1.14 (resin), 0.98 (hardener)	1.14 (resin), 1.01 (hardener)	1.14 (resin), 0.98 (hardener)
Mixed Density (specific density @ 77°F/25°C)	1.09	1.1	1.09
Pot Life (@ 77°F/25°C)	18 min	21 min	43 min
Tack Free Time (@ 95°F/35°C)	2 hrs	4 hrs	8 hrs
Recommended Full Cure	7 days @ 77°F/25°C	7 days @ 77°F/25°C	7 days @ 77°F/25°C Post cure recommended

ENVIRONMENTAL DATA

VOC Content (ASTM D2369)	0.16 lbs/gal (19.5 g/L)	0.26 lbs/gal (31.5 g/L)	0.00 lbs/gal (00.0 g/L)
Mixed Biobased Carbon Content (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

AMERICAS

ENTROPY RESINS
info@entropyresins.com
310.882.2120

100 Patterson Ave., Bay City, MI 48706
entropyresins.com