

High Biobased Laminating System

High Biobased Epoxy Resin for general laminations and coatings.

Product Overview

ONE is a general purpose laminating resin with high biobased content for composite laminating, coating, and adhesive applications. This system features a faster speed, low viscosity and includes quick air-releasing properties ideal for fiber-reinforced composite laminations and coatings. ONE is a USDA Certified BioPreferred® Product with 30% biobased content.

ONF FAST

ONS SLOW

MECHANICAL DATA		
Tensile Modulus (ASTM D638)	385,000 psi (2.7 GPa)	468,000 psi (3.2 GPa)
Tensile Strength (ASTM D638)	7,720 psi (53.2 MPa)	9,800 psi (67.6 MPa)
Elongation (ASTM D638)	6%	6%
Flexural Modulus (ASTM D790)	362,000 psi (2.5 GPa)	430,000 psi (3.0 GPa)
Flexural Strength (ASTM D790)	11,910 psi (82.1 MPa)	14,580 psi (100.5 MPa)
Compression Strength (ASTM D695)	11,300 psi (77.9 Mpa)	12,520 psi (86.3 MPa)
Tg Ultimate (DSC, midpoint)	146°F/63°C	128°F/53°C
Hardness (Shore D)	70-80	70-80
PROCESSING DATA		
Mix Ratio (by volume)	2:1	2:1
Mix Ratio (by weight)	100:43	100:43
Viscosity (A/B/Mixed @ 77°F/25°C)	1870/120/1020	1870/140/1060
Component Density (specific density @ 77°F/25°C)	1.14 (resin), 0.98 (hardener)	1.14 (resin), 0.98 (hardener)
Mixed Density (specific density @ 77°F/25°C)	1.09	1.08
Pot Life (@ 77°F/25°C)	18 min	43 min
Tack Free Time (@ 95°F/35°C)	3 hrs	8 hrs
Recommended Full Cure	7 days @ 77°F/25°C	7 days @ 77°F/25°C Post cure recommended
ENVIRONMENTAL DATA		
VOC Content (ASTM D2369)	0.17 lbs/gal (21 g/L)	0.06 lbs/gal (7.70 g/L)
Mixed Biobased Carbon Content (ASTM D6866)	28%	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.

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