

300 Compression Molding System

High Bio-Content, General Purpose Liquid Epoxy Resin

Product Overview

300 is an industrial compression molding resin for fast cycle times of fiber-reinforced composites. The 300 System delivers a high bio-content, excellent fiber wetting qualities, and thixotropic characteristics to limit sag in high temperature cure applications. A high modulus combined with excellent elongation properties enable durable yet lightweight composite parts. 300 is a USDA Certified BioPreferred® Product with 25% biobased content.

CPF
FAST
CPS
SLOW

MECHANICAL DATA

Tensile Modulus (ASTM D638)	488,000 psi (3.36 GPa)	505,000 psi (3.48 GPa)
Tensile Strength (ASTM D638)	10,400 psi (71.7 MPa)	10,200 psi (70.2 MPa)
Elongation (ASTM D638)	3.3%	4.2%
Compression Strength (ASTM D695)	13,900 psi (95.8 MPa)	13,400 psi (82.4 MPa)
Tg Midpoint (DSC)	185°F / 85°C	169°F / 76°C
Hardness (Shore D)	85	84

PROCESSING DATA

Mix Ratio (by volume)	2.02:1	2.16:1
Mix Ratio (by weight)	100:40	100:38
Viscosity (A/B/Mixed @ 77°F/25°C)	13260/1700/5399	13260/528/3025
Component Density (specific density @ 77°F/25°C)	1.16 (resin), 0.94 (hardener)	1.16 (resin), 0.95 (hardener)
Cured Density (specific density @ 77°F/25°C)	1.14	1.13
Pot Life (@ 77°F/25°C)	16 min	88 min
Tack Free Time (@ 95°F/35°C)	N/A	N/A
Recommended Full Cure	15 min @ 176°F/80°C	20 min @ 176°F/80°C

ENVIRONMENTAL DATA

VOC Content (ASTM D2369)	0.00 lbs/gal (0.28 g/L)	0.00 lbs/gal (0.00 g/L)
Mixed Biobased Carbon Content (ASTM D6866)	27%	30%

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 March 2022. © Gougeon Brothers, Inc. 2022

AMERICAS

ENTROPY RESINS
info@entropyresins.com
310.882.2120

100 Patterson Ave., Bay City, MI 48706

entropyresins.com