

# ONE

HIGH BIO-CONTENT  
RESIN

# Technical Data Sheet

## SUPER SAP® ONE System

High bio-content epoxy resin for general laminations and coatings

### Product Overview

SUPER SAP® ONE SYSTEM is the industry leader for USDA BioPreferredSM certified, ambient cure, laminating resin systems. Based upon our original Super Sap 100/1000 formula, this new system features a faster speed, lowered viscosity, and includes quick air-releasing properties ideal for fiber-reinforced composite laminations and coatings. Super Sap® ONE was designed to achieve an excellent balance of high performance and industry leading biobased, renewable content. Super Sap – Make Things Better.

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)	186°F/71°C	171°F/63 °C
Hardness (Shore D)	70-80	70-80
PROCESSING DATA		
Mix Ratio (by volume)	2:1	2:1
Mix Ratio (by weight)	100:43	100:47
Viscosity (A/B/Mixed @ 77 °F/25 °C)	650/450/500	1850/500/800
Component Density (specific density @ 77°F/25°C)	1.14 (epoxy), 0.98 (hardener)	1.14 (epoxy), 0.98 (hardener)
Mixed Density (specific density @ 77°F/25°C)	1.09	1.09
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
ENVIRONMENT DATA		
VOC Content (ASTM D2369)	0.17 lbs/gal (21. g/L)	0.14 lbs/gal (16.3 g/L)
Biobased Carbon Content (ASTM D6866)	30%	29%

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