

PRO-SET®

Technical Data

SBE-166

SBE-262

The New
Standard

ABSOLUTE CLEAR SURFBOARD EPOXY- FAST

COMBINED FEATURES

Formulated for high-volume production of surfboards, SUPs and other boardsport products requiring a clear, colorless finish over dark surfaces.

Fast flip times. SBE-262 hardener provides a flip time of less than one hour at 85°F. Flip times are significantly reduced by adding SBE-460 Accelerator at a maximum loading of 3% by weight.

Easy processing. Optimized for fill coats and hand wet out of lightweight fiberglass. Provides an extremely smooth surface when cured¹. Excellent sandability. Reaches full physical properties at room temperature cure.

Optical brightener-free for colorless clarity over dark surfaces.

Shelf life is 3 years for resin and 2 years for hardener when properly stored².

EPOXIES for
Laminating
Infusion
Tooling
Assembly

Gougeon Brothers, Inc.
P.O. Box 908
Bay City, MI 48707
prosetepoxy.com
888-377-6738

ISO9001:2015 Certified

Rev 2 / July 2017

©2018 Gougeon Brothers, Inc.

HANDLING PROPERTIES

| Property | Standard | Units | 72°F (22°C) | 77°F (25°C) | 85°F (29°C) |
|-----------------|------------|---------|-------------|-------------|-------------|
| 150g Pot Life | ASTM D2471 | minutes | 19-24 | 17-22 | 12-15 |
| + 3% SBE-460 | | | 5-8 | 5-8 | 3-5 |
| 500g Pot Life | ASTM D2471 | minutes | 19-24 | 16-21 | 12-15 |
| + 3% SBE-460 | | | 5-8 | 5-8 | 3-5 |
| Viscosity Mixed | ASTM D2196 | cP | 1,150 | 880 | 610 |

MIX RATIO

| Method | Resin:Hardener | Resin:Hardener |
|--------------|----------------|-------------------|
| Weight | 2.35:1 | 100:42.6 |
| Weight Range | 2.29:1-2.65:1 | 100:43.6-100:37.7 |
| Volume | 2.00:1 | 100:50.0 |
| Volume Range | 1.95:1-2.26:1 | 100:51.2-100:44.2 |

DENSITY

| State | Units | 72°F (22°C) |
|----------|---------------|-------------|
| Cured | lb/gal (g/cc) | 9.68 (1.16) |
| Resin | lb/gal (g/cc) | 9.77 (1.17) |
| Hardener | lb/gal (g/cc) | 8.42 (1.01) |

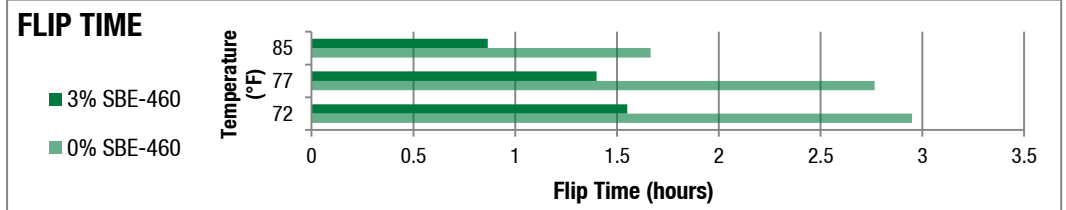
MECHANICAL PROPERTIES

| Property | Standard | Units | 72°F (22°C) x 2 wk |
|--------------------|------------|-----------|--------------------|
| Hardness | ASTM D2240 | Type D | 92 |
| Compression Yield | ASTM D695 | psi (MPa) | 11,700 (81) |
| Tensile Strength | ASTM D638 | psi (MPa) | 8,340 (58) |
| Tensile Modulus | ASTM D638 | psi (MPa) | 4.68E+05 (3.23) |
| Tensile Elongation | ASTM D638 | % | 3.6 |
| Flexural Strength | ASTM D790 | psi (MPa) | 13,600 (94) |
| Flexural Modulus | ASTM D790 | psi (MPa) | 4.55E+05 (3.14) |

THERMAL PROPERTIES

| Property | Standard | Units | 72°F (22°C) x 2 wk |
|-----------------------------|------------|---------|--------------------|
| Tg DSC Onset-1st Heat | ASTM E1356 | °F (°C) | 118 (48) |
| Heat Deflection Temperature | ASTM D648 | °F (°C) | 117 (47) |

FLIP TIME



¹To prevent water spotting, avoid contact with moisture until epoxy is thoroughly cured and top coated.

²Store PRO-SET® Epoxy resins and hardeners at room temperature in sealed containers until shortly before use. As with many high-performance epoxy resins, repeated exposure to low temperatures during storage may cause the resin to crystallize. If this occurs, warm the resin to 125°F and stir to dissolve crystals. Hardeners may form carbamation when exposed to CO₂ and moisture in the atmosphere for extended periods of time. Prevent carbamation by protecting hardeners from exposure until immediately prior to processing.

Test specimens were neat epoxy (without fiber reinforcement).

Typical values, not to be construed as specification.