

Key Features

Bonds Well to Most Substrates
Color Darkens When Cured
High Glass Transition Temperature
High Temperature Resistant
Long Pot Life
Listed on NASA Low Outgassing Website
Resistant to Fuel, Lubricants, Water and Weather
User-friendly Packaging

Uncured

Color Mixed: Amber
Color Part A: Clear Pale Yellow
Color Part B: Amber
Viscosity Mixed @ 25°C: 5000 cPs
Viscosity Part A: 6,500 cPs
Viscosity Part B: 4,000 cPs
Thixotropic Index: 1.0
Shelf Life Unmixed @ RT: 9 Months
Shelf Life Mixed @ -40°C: 9 Months
Mix Ratio A:B 96:4 Parts By Weight

Cure Options

16 hours @ 25°C + 1 hour @ 120°C
16 hours @ 25°C + 3 hours @ 100°C
16 hours @ 25°C + 5 minutes @ 150°C

Cured Properties

(Based on cure of 1 hour @ 120°C)
Color Dark Red
Shore D Hardness 85
Glass Transition Temp (°C) 130
Density (g/cc) 1.2
Lap Shear 2024T3 Clad (psi) 2,500

Electrical Properties

(Based on cure of 1 hours @ 120°C)
Volume Resistivity (ohm-cm) 4.7E 16@ 500 VDC

Product Description:

5010 is an amber, electrically isolating, precision mixed, degassed, and frozen epoxy. It bonds well to most substrates such as glass, plastics, and ceramics. This material changes color upon cure to a dark red color. This material is specifically designed to have a long pot life and a high glass transition temperature making this epoxy ideal for operating at elevated temperatures. 5010 is resistant to fuel, lubricants, water, and weather and features a low viscosity and user-friendly packaging. It is also available in room temperature stable two part kits.

This product will exotherm if cured at high temperatures in masses greater than 5 grams. Contact Appli-Tec for step cure instructions if curing in larger masses.

Thermal Properties

(Based on cure of 1 hour @ 120°C)
Glass Transition Temp (°C) 130
Degradation Temp. (°C) 300

Outgassing Properties

(Based on cure of 1 hour @ 120°C)
TML (%) 0.51
CVCM (%) 0.00
WVR (%) 0.43

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