

Key Features

Bonds Well to Most Substrates
Free Flowing
Wicks Easily Into Tight Spaces
Long Work Life
Low Viscosity
Optically Clear
User-friendly Packaging

Uncured

Work Life @ 25°C: 8 hours
Mixed Viscosity @ 25°C: 320 cPs
Pot Life @ 25°C: 4 hours
Shelf Life @ 25°C: 12 Months (2-part Kits)
Shelf Life @ -40°C: 12 Months (Cryo-Pac®)
Mix Ratio 100A : 34.5B Parts By Weight

Cure Options

6 hours @ 80° C
8 hours @ 65° C
8 days @ 25° C

Cured Properties

(Based on cure of 6 hours @ 80°C)
Color Clear
Shore D Hardness 83
Glass Transition Temp (°C) 85
Lap Shear 2024T3 Clad (psi) 3,300
Density (g/cc) 1.15
Refractive Index 1.56
Shrinkage Linear (%) 0.2

Electrical Properties

(Based on cure of 6 hours @ 80°C)
Dielectric Constant 3.013 @ 60 Hz
Dielectric Constant 3.052 @ 1k Hz
Dielectric Constant 2.846 @ 100k Hz
Dissipation Factor 0.0061 @ 60 Hz
Dissipation Factor 0.0118 @ 1k Hz
Dissipation Factor 0.0382 @ 100k Hz
Volume Resistivity (ohm-cm) 1.7E 16 @ 500 VDC

Product Description:

5051 is an optically clear, low viscosity, electrically isolating epoxy compound. It bonds well to most substrates such as metals, glass, ceramics, and most plastics.

Thermal Properties

(Based on cure of 6 hours @ 80°C)
Glass Transition Temp (°C) 85
Degradation Temp. (°C) 250

Outgassing Properties

(Based on cure of 6 hours @ 80°C)
TML (%) 0.58
CVCM (%) 0.01
WVR (%) 0.26

Acoustic Properties

(Based on cure of 6 hours @ 80°C)
Velocity (m/s) 2,645
Impedance (MRayles) 3.05
Loss (dB/cm-MHz) -6.2
Density (g/cc) 1.15

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