

Key Features

Bonds Well to Most Substrates
Electrically Isolating
Meets Nasa Outgassing at Multiple Cure Temps.
Low Shrinkage
Room or Elevated Temperature Cure
User-friendly Packaging

Uncured

Viscosity @ 25°C: 55,000 cPs
Pot Life @ 25°C: 1.25 hours
Shelf Life @ 25°C: 12 Months (Appli-Pac®)
Shelf Life @ -40°C: 6 Months (Cryo-Pac®)
Shelf Life @ -60°C: 10 Months (Cryo-Pac®)

Cure Options

24 hours @ 25°C
8 hours @ 45°C
2 hours @ 71°C

Cured Properties

(Based on cure of 2 hours @ 71°C)

Color	Gray
Shore D Hardness	70
Glass Transition Temp (°C)	23
Lap Shear 2024T3 Clad (psi)	3,500
% Shrinkage Linear	0.9

Electrical Properties

(Based on cure of 2 hours @ 71°C)

Dielectric Constant	3.4 @ 1000 Hz
Dissipation Factor	0.05 @ 1000 Hz
Volume Resistivity (ohm-cm)	1.0E 15 @ 500 VDC

Thermal Properties

(Based on cure of 2 hours @ 71°C)

Degradation Temp. (°C)	300
Glass Transition Temp (°C)	23
Thermal Conductivity (W/mK)	0.2

Product Description:

0176 is a one-component, gray, high strength, electrically isolating, precision mixed, degassed, and frozen epoxy. It features low shrinkage during cure, and works as gap filler or staking material. 0176 is can be cured at room or elevated temperatures and is available in either an Appli-Pac® or precision mixed, degassed, and frozen syringes.

Outgassing Properties

(Based on cure of 24 hours @ 25°C)

TML (%)	0.77
CVCM (%)	0.01
WVR (%)	0.22

Outgassing Properties

(Based on cure of 8 hours @ 45°C)

TML (%)	0.75
CVCM (%)	0.01
WVR (%)	0.22

Outgassing Properties

(Based on cure of 2 hours @ 71°C)

TML (%)	0.63
CVCM (%)	0.02
WVR (%)	0.25

Acoustic Properties

Velocity (m/s)	2,420
Impedance (MRayles)	3.254
Loss (dB/cm-MHz)	-7.3
Density (g/cc)	1.35

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