

Key Features

Bonds Well to Most Substrates
Electrically Isolating
Very Thixotropic
Room or Elevated Temperature Cure
Space Flight Grade
User-friendly Packaging
Meets NASA Outgassing Requirements

Uncured

Work Life @ 25°C: 30 Minutes
Pot Life @ 25°C: 15 Minutes
Viscosity @ 25°C: Paste
Shelf Life @ -40°C: 3 Weeks
Shelf Life @ -60°C: 3 Months
Shelf Life @ -75°C: TBD

Cure Options

8 hours @ 93°C
7 days @ 25°C
24 hours @ 23°C + 16 hours @ 65°C

Cured Properties

(Based on cure of 8 hours @ 93°C)
Color Opaque Amber
Shore A Hardness 70
Glass Transition Temp (°C) -70
Density (g/cc) 0.97

Electrical Properties

(Based on cure of 24 hours @ 23°C + 16 hours @ 65°C)
Volume Resistivity (ohm-cm) 5.1E 14 @ 500 VDC

Product Description:

0316 is an opaque amber, one-component, precision mixed, degassed, and frozen, electrically isolating, Space Flight Grade, precision mixed and frozen general purpose urethane adhesive. It features a very thixotropic consistency which keeps this material from sagging once applied. This material can be cured at either room or elevated temperatures. 0316 bonds well to most substrates such as metals, glass, ceramics, and plastics and meets NASA outgassing requirements with a TML of 0.61% and a CVCM of <0.01%.

Thermal Properties

(Based on cure of 24 hours @ 23°C + 16 hours @ 65°C)
CTE above Tg (ppm/°C) 188
CTE below Tg (ppm/°C) Not Determined
Glass Transition Temp (°C) -76
Operating Temp. Range (°C) -100 to 130

Outgassing Properties

(Based on cure of 24 hours @ 23°C + 16 hours @ 65°C)
TML (%) 0.61
CVCM (%) <0.01
WVR (%) 0.06

Acoustic Properties

Velocity (m/s) 1,622
Impedance (MRayles) 1.578
Loss (dB/cm-MHz) -6.7
Density (g/cc) 0.97

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