

Thixotropic consistency keeps material from sagging once applied

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%. The material meets NASA's outgassing requirements.

UNCURED	
Work Life @ 25°C	30 minutes
Pot Life @ 25°C	15 minutes
Viscosity @ 25°C	Paste
Shelf Life	3 weeks @ -40°C 3 months @ -60°C 24 months @ -75°C
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
THERMAL PROPERTIES	Based on cure of 24 hours @ 23°C + 16 hours @ 65°C
CTE above T _g (ppm/°C)	188
CTE below T _g (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
OUTGASSING PROPERTIES	Based on cure of 7 days @ 25°C
TML (%)	0.74
CVCM (%)	<0.01
WVR (%)	0.08
ACOUSTIC PROPERTIES	
Velocity (m/s)	1,622
Impedance (MRayles)	1.578
Loss (dB/cm-MHz)	-6.7
Density (g/cc)	0.97

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

Chat with a specialist:

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