

Space flight grade; designed specifically for encapsulation

0308 is an opaque amber, one-component, precision mixed, degassed, and frozen, electrically isolating, Space Flight Grade urethane adhesive designed specifically for encapsulation with highly reliable dispensing. This material has a thixotropic consistency but will exhibit limited flow upon application. 0308 exhibits low thermal conductivity and can be cured at either room or elevated temperatures. It will bond well to most substrates such as metals, glass, ceramics, and most plastics. This material meets the NASA outgassing requirements with a TML of 0.69% 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	80,000 cPs
Shelf Life	3 weeks @ -40°C 3 months @ -60°C TBD @ -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	60
Glass Transition Temp (°C)	-70
Density (g/cc)	0.99
Lap Shear 2024T3 Clad (psi)	1000
ELECTRICAL PROPERTIES	Based on cure of 24 hours @ 23°C + 16 hours @ 65°C
Volume Resistivity (ohm-cm)	4.1 E 14 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 24 hours @ 23°C + 16 hours @ 65°C
CTE above Tg (ppm/°C)	204
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 (%)	0.63
CVCM (%)	<0.01
WVR (%)	0.07
OUTGASSING PROPERTIES	Based on cure of 9 hours @ 65°C
TML (%)	0.69
CVCM (%)	<0.01
WVR (%)	0.09
ACOUSTIC PROPERTIES	
Velocity (m/s)	1,609

KEY FEATURES

Bonds Well to Most Substrates

Electrically Isolating

Thixotropic Consistency

Room or Elevated Temperature Cure

Space Flight Grade

User-friendly Packaging

Meets NASA Outgassing Requirements

Chat with a specialist:

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Rev F

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Impedance (MRayls)	1.591
Loss (dB/cm-MHz)	-6.0
Density (g/cc)	0.99