

## 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.

<b>UNCURED</b>	
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
<b>CURE OPTIONS</b>	8 hours @ 93°C    7 days @ 25°C 24 hours @ 23°C + 16 hours @ 65°C
<b>CURED PROPERTIES</b>	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
<b>ELECTRICAL PROPERTIES</b>	Based on cure of 24 hours @ 23°C + 16 hours @ 65°C
Volume Resistivity (ohm-cm)	4.1 E 14 @ 500 VDC
<b>THERMAL PROPERTIES</b>	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
<b>OUTGASSING PROPERTIES</b>	Based on cure of 24 hours @ 23°C + 16 hours @ 65°C
TML (%)	0.63
CVCM (%)	<0.01
WVR (%)	0.07
<b>OUTGASSING PROPERTIES</b>	Based on cure of 9 hours @ 65°C
TML (%)	0.69
CVCM (%)	<0.01
WVR (%)	0.09
<b>ACOUSTIC PROPERTIES</b>	
Velocity (m/s)	1,609
Impedance (MRayles)	1.591
Loss (dB/cm-MHz)	-6.0
Density (g/cc)	0.99

### 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

### Talk to an engineer:

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