

NuSil CV-2942

Silicone

NuSil Technology

Message:

Controlled Volatility (CV) Silicone Materials

Silicone's ability to remain elastic at low temperatures and resistant to breakdown at high temperatures offer excellent utility in extraterrestrial environments where materials are repeatedly exposed to extreme temperatures. NuSil's Controlled Volatility (CV) and Ultra Low Outgassing TM (SCV) silicone products are used by leading space programs to provide the much-needed resilient protection they require against contamination and material degradation.

Benefits of Silicone Materials for Space

Broad Operating Temperature

Compensation for CTE Mismatch

Protection Against Atomic Oxygen

Optically Clear Formulations

Flight Legacy

Comments: 1.0 W/m-K, Primed Lap Shear 375 psi (2.6 MPa)

General Information			
Features	Low to No Outgassing		
	Thermally Conductive		
Uses	Aerospace Applications		
	Electrical/Electronic Applications		
Agency Ratings	ASTM E 595		
	NASA SP-R-0022A		

Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.9E-4	cm/cm/°C	
Thermal Conductivity	1.0	W/m/K	ASTM E1530

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 20	
Part B	Mix Ratio by Weight: 1.0	
Tack Free Time	4.0	hr
Cure System	Platinum	

Uncured Properties	Nominal Value	Unit
Color	Grey	
Density	2.39	g/cm³
Curing Time (23°C)	24	hr
Pot Life	150	min

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	85	
Lap Shear Strength ¹	2.59	MPa

Tensile Strength	4.48	MPa
Tensile Elongation at Break	15	%
Tear Strength	9.63	kN/m
Electric Strength	17	kV/mm

NOTE

1.
- Primed with CF1-135

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