

NuSil CV2-2646

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: 0.003 ohm-cm, 1.5 W/m-K, Remains Conductive at High Temperature

General Information			
Features	Electrically Conductive		
	Low to No Outgassing		
Uses	Aerospace Applications		
Agency Ratings	ASTM E 595		
	NASA SP-R-0022A		
Physical	Nominal Value	Unit	
Spiral Flow	10.2	cm	
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	1.5	W/m/K	ASTM E1530
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 0.50		
Additional Information	Nominal Value	Unit	
Cure System	Alkoxy		
Uncured Properties	Nominal Value	Unit	
Color	Green		
Density	3.22	g/cm³	
Curing Time (23°C)	1.7E+2	hr	
Pot Life	120	min	

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	75	
Tensile Strength	2.07	MPa
Tensile Elongation at Break	70	%
Tear Strength	9.63	kN/m

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