

Ultra Low Outgassing™ SCV1-2590

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: Primed Lap Shear 175 psi (1.2 MPa)

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

Thermal	Nominal Value	Unit
CLTE - Flow	4.0E-4	cm/cm/°C

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	

Additional Information	Nominal Value	Unit
Cure System	Platinum	

Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.02	g/cm ³
Viscosity		
-- 1	2.8	Pa · s
-- 2	3.8	Pa · s
Curing Time (150°C)	0.25	hr
Pot Life	240	min

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	50	
Lap Shear Strength ³	1.21	MPa

Tensile Strength	6.38	MPa
Tensile Elongation at Break	90	%
NOTE		
1.	Part B	
2.	Part A	
3.	Primed with CF1-135	

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