

NuSil CV-1142

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: Spot Bonding, Available in Black & White

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

Thermal	Nominal Value	Unit
CLTE - Flow	3.2E-4	cm/cm/°C

Thermoset	Nominal Value	Unit
Tack Free Time	20.0	min
Cure System	Oxime	
Extrusion Rate	35.0	g/min

Uncured Properties	Nominal Value	Unit
Color	Translucent	
Density	1.11	g/cm³
Curing Time (23°C)	1.7E+2	hr

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	45	
Tensile Strength	4.83	MPa
Tensile Elongation at Break	300	%
Electric Strength	43	kV/mm

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