

NuSil CV7-1142-1

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: Flow Rate 0.7" with 0.375" Plunge

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	20.0	g/min
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.13	g/cm ³
Curing Time (23°C)	1.7E+2	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	40	
Tensile Strength	4.83	MPa
Tensile Elongation at Break	300	%
Tear Strength	10.5	kN/m
Electric Strength	46	kV/mm

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