

NuSil R-2939

Silicone

NuSil Technology

Message:

The Aircraft Industry has used silicone adhesives and coatings for over five decades. Silicone's ability to maintain its elasticity and low modulus over a broad temperature range provides excellent utility in extreme environments. Recent advances in material technology provide more opportunities for the Aircraft engineer in choosing the best material for an intended application. Examples of NuSil's capabilities in custom silicones for Aircraft are demonstrated in the following sections.

- Fuel Resistance
- Static Dissipation and Electrically Conductive Silicones
- Ice-Phobic Coatings
- Comment: 0.75 W/m-k Thermal Conductivity

General Information			
Features	Electrically Conductive		
	Fuel Resistant		
	Thermally Conductive		
Uses	Aircraft Applications		
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	0.75	W/m/K	ASTM C177
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 15		
Part B	Mix Ratio by Weight: 1.0		
Additional Information	Nominal Value	Unit	
Cure System	Platinum		
Operating Temperature	-50 to 200	°C	
Uncured Properties	Nominal Value	Unit	
Color	White		
Density	1.34	g/cm³	
Viscosity	65	Pa·s	
Curing Time (150°C)	0.50	hr	
Pot Life	120	min	
Cured Properties	Nominal Value	Unit	
Shore Hardness (Shore A)	70		
Tensile Strength	1.90	MPa	
Tensile Elongation at Break	80	%	
Tear Strength	7.01	kN/m	
Electric Strength	32	kV/mm	

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