

NuSil R-2550

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
- General Purpose: Adhesives and Sealants
- Comment: High Temperature Elastomer

General Information		
Features	Electrically Conductive	
	Fuel Resistant	
	High Heat Resistance	
Uses	Adhesives	
	Aircraft Applications	
	Sealants	
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	Tin	
Operating Temperature	-115 to 200	°C
Uncured Properties	Nominal Value	Unit
Color	Translucent	
Density	1.08	g/cm ³
Viscosity	9.0	Pa · s
Curing Time (23°C)	1.7E+2	hr
Pot Life	360	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	35	
Tensile Strength	3.45	MPa
Tensile Elongation at Break	180	%
Tear Strength	3.50	kN/m

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