

NuSil R4-1140

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: Adhesive

General Information		
Features	Electrically Conductive	
	Fuel Resistant	
Uses	Adhesives	
	Aircraft Applications	
	Sealants	
Physical	Nominal Value	Unit
Spiral Flow	5.08	cm
Thermoset	Nominal Value	Unit
Tack Free Time	10.0	min
Cure System	Acetoxxy	
Operating Temperature	-50 to 200	°C
Uncured Properties	Nominal Value	Unit
Color	Translucent	
Density	1.12	g/cm ³
Curing Time (23°C)	72	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	25	
Tensile Strength	9.65	MPa
Tensile Elongation at Break	750	%
Tear Strength	17.5	kN/m

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