

# NuSil R-1082

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: Ice Phobic

Comment: One-Part, 30% Solids

General Information		
Features	Electrically Conductive	
	Fuel Resistant	
Uses	Aircraft Applications	
Physical	Nominal Value	Unit
Solids Content	30	%
Cure System	Acetoxxy	
Operating Temperature	-50 to 200	°C
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.09	g/cm <sup>3</sup>
Viscosity	0.70	Pa · s
Curing Time (23°C)	1.2E+2	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	25	
Tensile Strength	9.83	MPa
Tensile Elongation at Break	950	%
Tear Strength	21.9	kN/m

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