

# NuSil R-2180

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: Cure: 30 M/25°C : 45 M/75°C : 135 M/150°C, 20% Solids

General Information		
Features	Electrically Conductive	
	Fuel Resistant	
Uses	Aircraft Applications	
Physical	Nominal Value	Unit
Solids Content	20	%
Cure System	Platinum	
Operating Temperature	-50 to 200	°C
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Uncured Properties	Nominal Value	Unit
Color	Translucent	
Viscosity	3.6	Pa · s
Pot Life	> 4300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	40	
Tensile Strength	11.7	MPa
Tensile Elongation at Break	1100	%
Tear Strength	52.5	kN/m

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