

NuSil R1-2145

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: Longer Work Time, Young's Modulus 300 psi (2.1 MPa)

General Information		
Features	Electrically Conductive	
	Fuel Resistant	
Uses	Adhesives	
	Aircraft Applications	
	Electrical/Electronic Applications	
	Sealants	
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Additional Information	Nominal Value	Unit
Cure System	Platinum	
Extrusion Rate		
Part A	265	g/min
Part B	250	g/min
Operating Temperature	-50 to 200	°C
Uncured Properties	Nominal Value	Unit
Color	Grey	
Density	1.17	g/cm ³
Curing Time (65°C)	2.0	hr
Pot Life	60	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	45	
Lap Shear Strength ¹	4.31	MPa
Tensile Modulus	2.07	MPa
Tensile Strength	6.89	MPa

Tensile Elongation at Break	400	%
Tear Strength	33.3	kN/m
Electric Strength	32	kV/mm

NOTE

1. Primed with CF1-135

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