

NuSil R3-2160

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: Thermal Stability

General Information		
Features	Electrically Conductive	
	Fuel Resistant	
	Good Thermal Stability	
Uses	Adhesives	
	Aircraft 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	
Operating Temperature	-50 to 200	°C
Uncured Properties	Nominal Value	Unit
Color	Red	
Density	1.19	g/cm ³
Curing Time (150°C)	0.25	hr
Pot Life	480	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	35	
Lap Shear Strength ¹	2.59	MPa
Tensile Strength	4.83	MPa
Tensile Elongation at Break	550	%
Tear Strength	26.3	kN/m
Electric Strength	20	kV/mm
NOTE		

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