NuSil R-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: High Temperature Elastomer

General Information	
Features	Electrically Conductive
	Fuel Resistant
	High Heat Resistance
Uses	Adhesives
	Aircraft Applications
	Electrical/Electronic Applications
	Sealants

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
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	1.20	g/cm³
Viscosity		
-- [1]	0.65	Pa·s
-- [2]	250	Pa·s
Curing Time (150°C)	0.50	hr
Pot Life	50	min
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	20	
Tensile Strength	5.17	MPa
Tensile Elongation at Break	630	%

Tear Strength	26.3	kN/m
Electric Strength	20	kV/mm

NOTE	
1.	Part B
2.	Part A

Recommended distributors for this material

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