NuSil R-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: Extremely Tough, Fast Cure Elastomer

General Information	
Features	Electrically Conductive
	Fast Cure
	Fuel Resistant
	Ultra High Toughness
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	
Extrusion Rate		
Part A	275	g/min
Part B	240	g/min
Operating Temperature	-50 to 200	°C
Uncured Properties	**Nominal Value**	**Unit**
Color	Grey	
Density	0.998	g/cm^3
Curing Time (65°C)	2.0	hr
Pot Life	15	min
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	45	
Lap Shear Strength [1]	4.14	MPa
Tensile Strength	7.24	MPa

Tensile Elongation at Break	400	%
Tear Strength	26.3	kN/m
Electric Strength	32	kV/mm

NOTE	
1.	Primed with CF1-135

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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