

# NuSil FS1-3730

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: Bonds Aggressively

General Information	
Features	Bondability
	Electrically Conductive
	Fuel Resistant
Uses	Adhesives
	Aircraft Applications
	Sealants

Thermoset	Nominal Value	Unit
Tack Free Time	30.0	min
Cure System	Acetoxxy	
Extrusion Rate	150	g/min
Operating Temperature	-50 to 200	°C
Uncured Properties	Nominal Value	Unit
Color	Translucent	
Density	1.40	g/cm <sup>3</sup>
Curing Time (23°C)	1.7E+2	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	35	
Lap Shear Strength	1.90	MPa
Tensile Strength	5.86	MPa
Tensile Elongation at Break	430	%
Tear Strength	10.5	kN/m

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