

NuSil FS3-3730

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: Fuel Resistance, 100 m % , Fast Cure

| General Information | |
|---------------------|-------------------------|
| Features | Electrically Conductive |
| | Fast Cure |
| | Fuel Resistant |
| Uses | Adhesives |
| | Aircraft Applications |
| | Sealants |

| Thermoset | Nominal Value | Unit |
|-----------------------------|---------------|-------------------|
| Tack Free Time | 15.0 | min |
| Cure System | Acetoxxy | |
| Extrusion Rate | 240 | g/min |
| Operating Temperature | -50 to 200 | °C |
| Uncured Properties | Nominal Value | Unit |
| Color | Translucent | |
| Density | 1.35 | g/cm ³ |
| Curing Time (23°C) | 72 | hr |
| Cured Properties | Nominal Value | Unit |
| Shore Hardness (Shore A) | 35 | |
| Tensile Strength | 5.86 | MPa |
| Tensile Elongation at Break | 400 | % |
| Tear Strength | 9.63 | kN/m |

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