

3M AC-350 Class A-1 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-350 Class A are fast-cure, intermediate density two-component, manganese dioxide cure, brushable, polysulfide fuel tank and fuselage sealants. 3M AC-350 Class A Sealants have outstanding resistance to aviation gasoline a jet fuel, as well as resistance to chemicals and petroleum products common to the aircraft industry. 3M AC-350 Class A Sealants maintain flexibility and bond strength on most metal substrates such as aluminum, titanium, steel, stainless steel, and many coatings under extremes of temperature, weathering and stress. The mixed compound is a pourable liquid easily applied by brush or roller. It has excellent tooling properties. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-350-Class-A-1-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	cured 14 days @ 50% RH
Volatiles	12 %	12 %	
Brookfield Viscosity	25000 - 50000 cP	25000 - 50000 cP	Base, RVF #6 sp @ 10 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	48 - 53	48 - 53	cured 14 days @ 50% RH
Tensile Strength at Break	2.21 MPa	321 psi	JRF- 72 hrs @ 60°C, and 72 hrs @ 49°C Air Drying, and 7 days @ 121°C
	2.41 MPa	350 psi	Standard Heat Cycle +JRF - 7 days @ 60°C
	2.76 MPa	400 psi	Standard Cure
	1.59 MPa @Temperature 60.0 °C	231 psi @Temperature 140 °F	JRF-14 days
	2.41 MPa @Temperature 182 °C, Time 28800 sec	350 psi @Temperature 360 °F, Time 8.00 hour	
Elongation at Break	80 %	80 %	Standard Heat Cycle +JRF - 7 days @ 60°C
	150 %	150 %	JRF- 72 hrs @ 60°C, and 72 hrs @ 49°C Air Drying, and 7 days @ 121°C
	350 %	350 %	Standard Cure
	340 % @Temperature 60.0 °C	340 % @Temperature 140 °F	JRF-14 days

Mechanical Properties	Metric	English	Comments
	@Temperature 182 °C, Time 28800 sec	@Temperature 360 °F, Time 8.00 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	cured 14 days @ 50% RH
	182 °C	360 °F	Short term, cured 14 days @ 50% RH
Minimum Service Temperature, Air	-54.0 °C	-65.2 °F	cured 14 days @ 50% RH

Processing Properties	Metric	English	Comments
Cure Time	300 min	5.00 hour	Tack-Free Time
	480 min	8.00 hour	
Shelf Life	9.00 Month	9.00 Month	
	@Temperature <=26.7 °C	@Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Dark Brown	Accelerator
	Light Gray	
	White	Base

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