

3M AC-350 Class C-2 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-350 Class C are fast-cure, intermediate density polysulfide sealant suitable for fuel tank and fuselage applications. These two-component, manganese dioxide cured sealant have resistance to aviation gasoline and jet fuel, as well as resistance to chemicals and petroleum products common to other aircraft industry. 3M AC-350 Class C 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 flowable, faying surface grade material easily applied by brush, roller, spatula, or extrusion gun. The sealant exhibits good tooling properties. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-350-Class-C-2-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	<= 1.40 g/cc	<= 0.0506 lb/in ³	cured 14 days @ 50% RH
Volatiles	5.0 %	5.0 %	
Brookfield Viscosity	200000 - 350000 cP	200000 - 350000 cP	Base, RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 55	50 - 55	cured 14 days @ 50% RH
Shear Strength	1.65 MPa @Time 1.21e+6 sec	240 psi @Time 336 hour	Graphite Bismaleimide (BMI) composite IM7/5250-4
	1.86 MPa @Time 346000 sec	270 psi @Time 96.0 hour	AMS4911 Titanium
Peel Strength	6.49 kN/m @Temperature 60.0 °C, Time 605000 sec	37.0 pli @Temperature 140 °F, Time 168 hour	in JRF, Graphite/BMI
	6.66 kN/m @Temperature 60.0 °C, Time 605000 sec	38.0 pli @Temperature 140 °F, Time 168 hour	in JRF, MIL-C-27725
	6.84 kN/m @Temperature 60.0 °C, Time 605000 sec	39.0 pli @Temperature 140 °F, Time 168 hour	in JRF/SW, Graphite/BMI
	7.19 kN/m @Temperature 60.0 °C, Time 605000 sec	41.0 pli @Temperature 140 °F, Time 168 hour	in JRF, MIL-C-5541

Mechanical Properties	Metric	English	Comments
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	in JRF/SW, MIL-C-27725
	7.36 kN/m	42.0 pli	in JRF/SW, MIL-PRF-85582
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	7.89 kN/m	45.0 pli	in JRF/SW, MIL-C-5541
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	7.89 kN/m	45.0 pli	in JRF, AMS 4911 Titanium
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	7.89 kN/m	45.0 pli	in JRF/SW, AMS 4911 Titanium
	@Temperature 60.0 °C, Time 6.05e+6 sec	@Temperature 140 °F, Time 1680 hour	
	7.89 kN/m	45.0 pli	in JRF, MIL-PRF-85582
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	8.24 kN/m	47.0 pli	in JRF/SW, AMS 4911 Titanium
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	9.99 kN/m	57.0 pli	in JRF, AMS 4911 Titanium
	@Temperature 60.0 °C, Time 6.05e+6 sec	@Temperature 140 °F, Time 1680 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	360 - 420 min	6.00 - 7.00 hour	Tack-Free Time
	480 - 540 min	8.00 - 9.00 hour	
Shelf Life	9.00 Month	9.00 Month	
	@Temperature <=26.7 °C	@Temperature <=80.1 °F	

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

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