

3M AC-350 Class C-1/2 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-12-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	240 psi	Graphite Bismaleimide (BMI) composite IM7/5250-4
	@Time 1.21e+6 sec	@Time 336 hour	
	1.86 MPa	270 psi	AMS4911 Titanium
	@Time 346000 sec	@Time 96.0 hour	
Peel Strength	6.49 kN/m	37.0 pli	in JRF, Graphite/BMI
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	6.66 kN/m	38.0 pli	in JRF, MIL-C-27725
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	6.84 kN/m	39.0 pli	in JRF/SW, Graphite/BMI
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	7.19 kN/m	41.0 pli	in JRF, MIL-C-5541
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	

Mechanical Properties	7.36 kN/m Metric	42.0 pli English	Comments in JRF/SW, MIL-C-27725
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	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	120 - 180 min	2.00 - 3.00 hour	Tack-Free Time
	120 - 180 min	2.00 - 3.00 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China