

3M AC-250 B-1/6 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-250 B-1/6 is a two-part, polysulfide, quick repair sealant for integral fuel tank and fuselage sealing applications. The mixed compound is a thixotropic paste and can be readily applied with a spatula or extrusion gun. It will cure to a fuel-resistant rubber at temperatures above -6.7°C. It exhibits excellent tooling properties. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-250-B-16-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	AMS-S83318
Volatiles	5.0 %	5.0 %	
Brookfield Viscosity	900000 - 1.30e+6 cP	900000 - 1.30e+6 cP	Base, RVF #6 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	Hydrolytic Stability; AMS-S83318
	55	55	AMS-S83318
Tensile Strength at Break	1.38 MPa	200 psi	JRF; AMS-S83318
	@Temperature 60.0 °C, Time 1.21e+6 sec	@Temperature 140 °F, Time 336 hour	
	3.38 MPa	490 psi	JRF; AMS-S83318
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
	2.76 MPa	400 psi	Standard Cure; AMS-S83318
	@Time 1.21e+6 sec	@Time 336 hour	
Elongation at Break	280 %	280 %	JRF; AMS-S83318
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
	380 %	380 %	JRF; AMS-S83318
	@Temperature 60.0 °C, Time 1.21e+6 sec	@Temperature 140 °F, Time 336 hour	
	340 %	340 %	Standard Cure; AMS-S83318
	@Time 1.21e+6 sec	@Time 336 hour	
Peel Strength	9.12 kN/m	52.0 pli	JRF, Alclad; AMS-S83318
	@Temperature 60.0 °C,	@Temperature 140 °F,	

Mechanical Properties	Time 605000 sec Metric	Time 168 hour English	Comments
	9.29 kN/m	53.0 pli	JRF/SW, MIL-C-27725; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	9.29 kN/m	53.0 pli	JRF/SW, Alodine; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	9.64 kN/m	55.0 pli	JRF, MIL-C-27725; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	9.64 kN/m	55.0 pli	JRF/SW, Stainless Steel; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	10.2 kN/m	58.0 pli	JRF/SW, Alclad; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	10.5 kN/m	60.0 pli	JRF, Stainless Steel; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	10.5 kN/m	60.0 pli	JRF/SW, Titanium; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	11.0 kN/m	63.0 pli	JRF, Alodine; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	
	11.4 kN/m	65.0 pli	JRF, Titanium; AMS-S83318
	@Temperature 60.0 °C, Time 605000 sec	@Temperature 140 °F, Time 168 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	AMS-S83318
Minimum Service Temperature, Air	-54.0 °C	-65.2 °F	AMS-S83318

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Tack-Free Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	120 min	2.00 hour	

Processing Properties	Metric @ Temperature 4.40 °C	English @ Temperature 39.9 °F	Tack-Free Time Comments
	300 min	5.00 hour	Tack-Free Time
	@Temperature -6.70 °C	@Temperature 19.9 °F	
	480 min	8.00 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	600 min	10.0 hour	
	@Temperature 4.40 °C	@Temperature 39.9 °F	
	840 min	14.0 hour	
	@Temperature -6.70 °C	@Temperature 19.9 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature <=26.7 °C	@Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Dark Brown	Accelerator
	Gray	
	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