

3M AC-236 Class B-2 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-236 Class B are two-component, manganese dioxide cured, liquid polysulfide polymer system providing excellent fuel tank and fuselage seals. They have outstanding resistance to aviation gasoline and jet fuel, as well as resistance to chemicals and petroleum products common to the aircraft industry. 3M AC-236 Class B Sealants maintain flexibility and bond strength on most metal substrates like aluminum, stainless steel, steel, and many coatings under extremes of temperature, weathering and stress. The mixed compound is a thixotropic paste easily applied by extrusion, injection gun or spatula. They have excellent tooling properties. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-236-Class-B-2-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	cured 14 days @ 50% RH
Volatiles	3.0 %	3.0 %	
Brookfield Viscosity	70000 - 160000 cP	70000 - 160000 cP	Accelerator, RVF #10 sp @ 2 rpm
	900000 - 1.40e+6 cP	900000 - 1.40e+6 cP	Base, RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	cured 14 days @ 50% RH
Tensile Strength at Break	1.65 MPa	239 psi	24 hrs @ 121°C, and JRF-7 days @ 60°C
	2.41 MPa	350 psi	Standard Cure - 14 days
	2.48 MPa	360 psi	JRF- 72 hrs @ 60°C, and Air Drying - 72 hrs @ 49°C, and 7 days @ 121°C
	1.48 MPa	215 psi	JRF-14 days
	@Temperature 60.0 °C	@Temperature 140 °F	
Elongation at Break	2.17 MPa	315 psi	JRF-7 days
	@Temperature 121 °C	@Temperature 250 °F	
Elongation at Break	175 %	175 %	24 hrs @ 121°C, and JRF-7 days @ 60°C
	195 %	195 %	JRF- 72 hrs @ 60°C, and Air Drying - 72 hrs @ 49°C, and 7 days @ 121°C
	220 %	220 %	Standard Cure - 14 days
	210 %	210 %	JRF-14 days

Mechanical Properties	@Temperature 60.0 °C Metric	@Temperature 140 °F English	Comments
	240 %	240 %	JRF-7 days
	@Temperature 121 °C	@Temperature 250 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	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	1440 min	24.0 hour	Tack-Free Time
	2880 min	48.0 hour	
Shelf Life	9.00 Month @Temperature <=26.7 °C	9.00 Month @Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Gray	

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