

3M AC-240 Class B-1/2 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-240 Class B is a two-part, polysulfide-based, long application life, quick cure product for use as a sealant for integral fuel tanks and fuselages. This two-component, manganese dioxide cured sealant is solvent free and has outstanding resistance to aviation gasoline and jet fuel, as well as resistance to chemicals and petroleum products common to the aircraft industry. 3M AC-240 Class B Sealants maintains flexibility and bond strength on most metal substrates like aluminum, titanium, stainless steel, steel, glass and many coatings under extremes of temperature, weathering and stress. The mixed compound has a low-sag consistency and can be readily applied with a spatula or extrusion gun on vertical surfaces. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-240-Class-B-12-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	cured 14 days @ 50% RH; AMS-S-8802
Volatiles	2.0 %	2.0 %	
Brookfield Viscosity	900000 - 1.40e+6 cP	900000 - 1.40e+6 cP	RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	cured 14 days @ 50% RH
Tensile Strength at Break	1.65 MPa	239 psi	24 hrs @ 121°C, and JRF-7 days @ 60°C
	2.07 MPa	300 psi	Standard Cure - 14 days
	2.76 MPa	400 psi	JRF- 72 hrs @ 60°C, and 72 hrs @ 49°C, and 7 days @ 121°C
	1.72 MPa	249 psi	JRF-14 days
	@Time 216000 sec	@Time 60.0 hour	
Elongation at Break	2.90 MPa	421 psi	JRF-7 days
	@Time 436000 sec	@Time 121 hour	
Elongation at Break	200 %	200 %	JRF- 72 hrs @ 60°C, and 72 hrs @ 49°C, and 7 days @ 121°C; AMS-S-8802
	360 %	360 %	24 hrs @ 121°C, and JRF-7 days @ 60°C; AMS-S-8802
	370 %	370 %	Standard Cure - 14 days; AMS-S-8802
	200 %	200 %	JRF-7 days; AMS-S-8802

Mechanical Properties	@Temperature 121 °C Metric	@Temperature 250 °F English	Comments
	296 %	296 %	JRF-14 days; AMS-S-8802
	@Temperature 60.0 °C	@Temperature 140 °F	

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	240 min	4.00 hour	Tack-Free Time
	240 min	4.00 hour	
Shelf Life	9.00 Month @Temperature <=26.7 °C	9.00 Month @Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Dark Brown	Accelerator
	Gray	
	White	Base

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