

3M AC-370 Class B-1/2 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-370 Class B are fast cure, low density polysulfide sealants suitable for fuel tank and fuselage applications. These two-component, manganese dioxide cured sealants are solvent free and have outstanding resistance to aviation gasoline and jet fuel, as well as resistance to chemicals and petroleum product common to the aircraft industry. 3M AC-370 Class B Sealants maintain flexibility and bond strength on most metal substrates like aluminum, titanium, 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-370-Class-B-12-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	<= 1.30 g/cc	<= 0.0470 lb/in ³	cured 14 days @ 50% RH
Volatiles	2.5 %	2.5 %	
Brookfield Viscosity	900000 - 1.60e+6 cP	900000 - 1.60e+6 cP	RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 55	50 - 55	cured 14 days @ 50% RH
Tensile Strength at Break	1.25 MPa	181 psi	12 days @ 60°C + 60 hrs @ 71°C + 6 hrs @ 82°C in JRF I
	1.72 MPa	249 psi	Standard Cure
	1.72 MPa	249 psi	Standard heat cycle (AMS)
	1.82 MPa	264 psi	12 days @ 60°C + 60 hrs @ 71°C + 6 hrs @ 82°C in JRF I + 24 hrs air dry @ 49°C + standard heat cycle (AMS)
	1.91 MPa	277 psi	72 hrs at standard temperature in AMS 3021
	1.91 MPa	277 psi	72 hrs at standard temperature in AMS 3020
Elongation at Break	55 %	55 %	Standard heat cycle (AMS)
	56 %	56 %	12 days @ 60°C + 60 hrs @ 71°C + 6 hrs @ 82°C in JRF I + 24 hrs air dry @ 49°C + standard heat cycle (AMS)
	407 %	407 %	12 days @ 60°C + 60 hrs @ 71°C + 6 hrs @ 82°C in JRF I
	412 %	412 %	Standard Cure

Mechanical Properties	452 % Metric	452 % English	72 hrs at standard temperature in AMS 3020 Comments
	452 %	452 %	72 hrs at standard temperature in AMS 3020

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
	360 - 420 min	6.00 - 7.00 hour	
Shelf Life	9.00 Month @Temperature <=26.7 °C	9.00 Month @Temperature <=80.1 °F	

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

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