

3M AC-350 Class B-12 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-350 Class B are fast-cure, intermediate density polysulfide sealant suitable for fuel tank and fuselage applications. These two-component, manganese dioxide cured sealant are solvent free and have resistance to aviation gasoline and jet fuel, as well as resistance to chemicals and petroleum products common to the aircraft industry. 3M AC-350 Class B Sealants maintain flexibility and bond strength on most metal substrates such as aluminum, titanium, steel, stainless steel, glass, 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, and exhibits good tooling properties. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-350-Class-B-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	2.0 %	2.0 %	
Brookfield Viscosity	900000 - 1.20e+6 cP	900000 - 1.20e+6 cP	Base, 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	1.51 MPa	219 psi	Standard Heat cycle + JRF-12 days @ 60°C, 60 hrs @ 71°C, 6 hrs @ 82°C + 24 hrs at 49°C
	1.65 MPa	239 psi	24 hrs @ 121°C, and JRF-7 days @ 60°C
	1.79 MPa	260 psi	Standard Cure-14 days
	1.38 MPa	200 psi	JRF-14 days
	@Temperature 60.0 °C	@Temperature 140 °F	
	2.28 MPa	331 psi	
Elongation at Break	@Temperature 182 °C, Time 28800 sec	@Temperature 360 °F, Time 8.00 hour	
	2.55 MPa	370 psi	
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
Elongation at Break	42 %	42 %	Standard Heat cycle + JRF-12 days @ 60°C, 60 hrs @ 71°C, 6 hrs @ 82°C + 24 hrs at 49°C
	260 %	260 %	24 hrs @ 121°C, and JRF-7 days @ 60°C

Mechanical Properties	Metric	English	Comments
	500 %	500 %	Standard Cure-14 days
	540 %	540 %	JRF-14 days
	@Temperature 60.0 °C	@Temperature 140 °F	
	100 %	100 %	
	@Temperature 182 °C, Time 28800 sec	@Temperature 360 °F, Time 8.00 hour	
	125 %	125 %	
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 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	5760 min	96.0 hour	Tack-Free Time
	5760 min	96.0 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

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