

3M AC-730 Class B-2 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-730 Class B are fast cure, two-part, manganese-cured, non-chromate containing corrosion inhibiting sealants. These Sealants provide an effective barrier against the common causes of corrosion on aluminum and between dissimilar metals. 3M AC-730 Class B Sealants have outstanding resistance to aviation gasoline and jet fuel, as well as resistance to chemicals, hydraulic fluids and petroleum products common to the aircraft industry. The mixed compound is a thixotropic paste, easily applied by spatula, extrusion gun or injection gun. They maintain flexibility and bond strength on most metal substrates under extremes of temperature, weathering stress. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-AC-730-Class-B-2-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	cured 14 days @ 50% RH
Volatiles	2.0 %	2.0 %	
Brookfield Viscosity	950000 - 1.60e+6 cP	950000 - 1.60e+6 cP	Base, RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	cured 14 days @ 50% RH
Tensile Strength at Break	2.05 MPa	297 psi	Heat Cycle - 6 cycles of 4 hrs @ 121°C, 40 mins @ 160°C, and 1 hr @ 182°C
	2.07 MPa	300 psi	JRF 12 days @ 60°C, 60 hrs @ 71°C, 6 hrs @ 82°C
	2.07 MPa	300 psi	JRF 12 days @ 60°C, 60 hrs @ 71°C, 6 hrs @ 82°C + Heat Cycle
	1.86 MPa	270 psi	JRF
	@Temperature 60.0 °C, Time 1.04e+6 sec	@Temperature 140 °F, Time 288 hour	
	2.83 MPa	410 psi	Standard cure
	@Time 1.21e+6 sec	@Time 336 hour	
Elongation at Break	60 %	60 %	JRF 12 days @ 60°C, 60 hrs @ 71°C, 6 hrs @ 82°C + Heat Cycle
	67.0 %	67.0 %	Heat Cycle - 6 cycles of 4 hrs @ 121°C, 40 mins @ 160°C, and 1 hr @ 182°C
	525 %	525 %	JRF 12 days @ 60°C, 60 hrs @ 71°C, 6 hrs @ 82°C

Mechanical Properties	390 % Metric	390 % English	Comments JRF
	@Temperature 60.0 °C, Time 1.04e+6 sec	@Temperature 140 °F, Time 288 hour	
	460 %	460 %	Standard cure
	@Time 1.21e+6 sec	@Time 336 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	960 min	16.0 hour	Tack-Free Time
	1440 min	24.0 hour	
Shelf Life	9.00 Month @Temperature <=26.7 °C	9.00 Month @Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
	Black	Accelerator
	Off White	Base

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