

3M AC-275 Class B-4 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-275 Class B is a high temperature two-component manganese dioxide cured, liquid polysulfide polymer sealants 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-275 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-275-Class-B-4-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	cured 14 days @ 50% RH; AMS3276
Volatiles	3.0 %	3.0 %	
Brookfield Viscosity	70000 - 160000 cP	70000 - 160000 cP	Accelerator, RVF #10 sp @ 2 rpm
	1.00e+6 - 1.60e+6 cP	1.00e+6 - 1.60e+6 cP	Base, RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	cured 14 days @ 50% RH; AMS3276
Tensile Strength at Break	1.48 MPa	215 psi	JRF-12 days @ 60°C + 60 hrs @ 71°C + 6 hrs 82°C; AMS3276
	1.65 MPa	239 psi	Std Heat Cycle; AMS3276
	2.41 MPa	350 psi	Standard Cure - 14 days; AMS3276
	2.48 MPa	360 psi	JRF-12 days @ 60°C + 60 hrs @ 71°C + 6 hrs 82°C + 24 hrs @ 49°C + Std Heat Cycle; AMS3276
Elongation at Break	100 %	100 %	Std Heat Cycle; AMS3276
	155 %	155 %	JRF-12 days @ 60°C + 60 hrs @ 71°C + 6 hrs 82°C + 24 hrs @ 49°C + Std Heat Cycle; AMS3276
	210 %	210 %	JRF-12 days @ 60°C + 60 hrs @ 71°C + 6 hrs 82°C; AMS3276
	220 %	220 %	Standard Cure - 14 days; AMS3276

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	121 °C Metric	250 °F English	cured 14 days @ 50% RH Comments
	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	2520 min	42.0 hour	Tack-Free Time
	7200 min	120 hour	
Shelf Life	9.00 Month @Temperature <=26.7 °C	9.00 Month @Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Black	Accelerator
	Gray	
	White	Base

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