

3M AC-251 Black Class B-1 Aerospace Sealant

Category : Polymer , Thermoset

Material Notes:

3M Aerospace Sealant AC-251 Black Class B are two-part, quick curing, polysulfide based canopy and windshield sealants. These products are formulated for sealing acrylic, glass, and polycarbonate aircraft canopies and windshields. 3M AC-251 Black Class B Sealants contain no solvents and do not craze. The sealants quickly cure and exhibit excellent adhesion and resistance to UV and weather exposure. 3M AC-251 Black Class B Sealants have a thixotropic, non-sag consistency. They 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-251-Black-Class-B-1-Aerospace-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	cured 14 days @ 50% RH; AMS-S-8802
Volatiles	2.0 %	2.0 %	
Brookfield Viscosity	900000 - 1.60e+6 cP	900000 - 1.60e+6 cP	Base, RVF #7 sp @ 2 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	cured 14 days @ 50% RH; AMS-S-8802
Tensile Strength at Break	2.14 MPa	310 psi	
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
	2.41 MPa	350 psi	Standard Cure
	@Time 1.21e+6 sec	@Time 336 hour	
Elongation at Break	300 %	300 %	
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
	370 %	370 %	Standard Cure
	@Time 1.21e+6 sec	@Time 336 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	AMS-S-8802, cured 14 days @ 50% RH
	182 °C	360 °F	AMS-S-8802, cured 14 days @ 50% RH
Minimum Service Temperature, Air	-54.0 °C	-65.2 °F	AMS-S-8802, cured 14 days @ 50% RH

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	300 min	5.00 hour	Tack-Free Time
	420 min	7.00 hour	
Shelf Life	9.00 Month @Temperature <=26.7 °C	9.00 Month @Temperature <=80.1 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
	Black	Base
	Black	Accelerator

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