

Hexcel® Redux® 382H (0.06 psf) Film Adhesive

Category : Polymer , Adhesive , Film , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Redux 382H is a 250°F curing modified epoxy film adhesive available in both supported and unsupported versions. Redux 382H is a versatile adhesive system suitable for bonding a wide variety of substrates with various temperature cure cycles. Features: Superior bonding capability on substrates with high moisture contents; Low volatile content allows use with perforated and non-perforated core materials; Excellent environmental resistance when tested to US-Military Specification MMM-A-132; Handling characteristics minimize shop handling and lay up times; Meets requirements of US Specifications: MMM-A-132, MILK-A-25462, and ASTM-E865-82. Applications: Redux 382H is adaptable to high and low temperature cure cycles normally associated with large scale metal to metal and sandwich panel bonding. Redux 382H gives superior mechanical properties on metal, wood and paper substrates.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-Redux-382H-006-psf-Film-Adhesive.php

Physical Properties	Metric	English	Comments
Storage Temperature	-17.8 °C	0.000 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	5.86 MPa	850 psi	Flatwise Tensile, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
	@Temperature 82.2 °C	@Temperature 180 °F	
	7.58 MPa	1100 psi	
Shear Strength	@Temperature -55.0 °C	@Temperature -67.0 °F	Flatwise Tensile, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
	8.27 MPa	1200 psi	
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Shear Strength	17.9 MPa	2600 psi	Lap Shear, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
	@Temperature 100 °C	@Temperature 212 °F	
	26.9 MPa	3900 psi	
Shear Strength	@Temperature 82.2 °C	@Temperature 180 °F	Lap Shear, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
	31.0 MPa	4500 psi	
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Shear Strength	32.8 MPa	4750 psi	Lap Shear, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463, Exposure: 30 days in tap water.
	@Temperature 21.1 °C	@Temperature 70.0 °F	
	32.8 MPa	4750 psi	
Shear Strength	@Temperature 21.1 °C	@Temperature 70.0 °F	Lap Shear, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463, Exposure: 30 days at 120°F (95% rH).
	32.8 MPa	4750 psi	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Mechanical Properties	Metric	English	Comments
	33.8 MPa @Temperature 21.1 °C	4900 psi @Temperature 70.0 °F	Lap Shear, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463, Exposure: 30 days salt spray.
	34.5 MPa @Temperature 21.1 °C	5000 psi @Temperature 70.0 °F	Lap Shear, Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month @Temperature -17.8 °C	6.00 Month @Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Areal Weight (psf)	0.06	
Climbing Drum Peel (in-lb/3in)	44	-67°F; Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
	52	180°F; Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
	60	70°F;Cured at 250°C for 60 min at 30 psi MMM-A-132 and MIL-A-25463.
Roll Width (in)	49	
Standard Roll (ft2)	670	

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