

Hexcel® Redux® 609 (0.06 psf) Adhesive film for bonding metallic and composite components

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

Material Notes:

Redux 609 is a 250°F curing modified epoxy film adhesive containing a cotton scrim for easy handling and glue-line thickness control. It is available at standard areal weights of 0.06 psf and 0.04 psf and is also available unsupported at 0.06 psf. Features: Flexible cure cycle; Good lap shear performance at temperatures ranging from -67°F to 180°F; Good peel properties from -67°F to 180°F; Good tack to assist in adhesive joint assembly; Less than 1% volatile content; Suitable for bonding a wide range of substrates. Applications: Aluminum to aluminum bonding; Sandwich bonding with a variety of skins and cores

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-Redux-609-006-psf-Adhesive-film-for-bonding-metallic-and-composite-components.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	7.03 MPa	1020 psi	Flatwise Tensile
Shear Strength	15.2 MPa	2200 psi	Lap Shear
	@Temperature 98.9 °C	@Temperature 210 °F	
	24.1 MPa	3500 psi	Lap Shear, Environmental Conditioning: 160°F 95% RH (1000 hrs)
	@Temperature 21.1 °C	@Temperature 70.0 °F	
	24.1 MPa	3500 psi	Lap Shear
	@Temperature 82.2 °C	@Temperature 180 °F	
	31.0 MPa	4500 psi	Lap Shear
	@Temperature 48.9 °C	@Temperature 120 °F	
	33.1 MPa	4800 psi	Lap Shear
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Peel Strength	2.10 kN/m	12.0 pli	Bell Peel, Environmental Conditioning: 160°F 95% RH (1000 hrs)
	@Temperature 82.2 °C	@Temperature 180 °F	
	2.80 kN/m	16.0 pli	Bell Peel
	@Temperature 21.1 °C	@Temperature 70.0 °F	
	2.98 kN/m	17.0 pli	Bell Peel
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Mechanical Properties	4.38 kN/m Metric	25.0 pli English	Comments
	@Temperature 48.9 °C	@Temperature 120 °F	
	4.56 kN/m	26.0 pli	Bell Peel
	@Temperature 82.2 °C	@Temperature 180 °F	
	5.43 kN/m	31.0 pli	Bell Peel
	@Temperature 98.9 °C	@Temperature 210 °F	

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Areal Weight (psf)	0.06	
Climbing Drum Peel (in-lb/3in)	22	70°F
	28	120°F
	28	180°F
	32	210°F
Roll Width (in)	49	
Standard Roll (ft2)	1075	
Support	Cotton Scrim	

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