

Hexcel® Redux® 641K Modified epoxy film adhesive for bonding metallic and composite components

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

Material Notes:

Redux 641 is a high temperature modified epoxy film adhesive curing at 350°F. It is suitable for bonding metal to metal and for sandwich structures where operating temperatures are experienced up to 350°F for short periods, or 300°F for continuous operation. Redux 641 is a hot melt film which is free from solvents and consequently has a very low volatile content. Features: Cures in 1 hour at 350°F; Good hot lap shear performance up to 300°F; Good peel performance in sandwich structures at temperatures up to 300°F; Excellent metal-metal peel properties; Excellent drape and handleability; Very low volatile content. Applications: Metal to metal bonding; Sandwich constructions with a variety of skins and cores.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-Redux-641K-Modified-epoxy-film-adhesive-for-bonding-metallic-and-composite-components.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	8.00 MPa	1160 psi	Flatwise Tensile
	@Temperature 177 °C	@Temperature 350 °F	
	8.998 MPa	1305 psi	
	@Temperature 149 °C	@Temperature 300 °F	Flatwise Tensile
	13.00 MPa	1885 psi	
	@Temperature 22.2 °C	@Temperature 72.0 °F	
Shear Strength	14.0 MPa	2030 psi	Lap Shear
	@Temperature 177 °C	@Temperature 350 °F	
	17.00 MPa	2465 psi	
	@Temperature 149 °C	@Temperature 300 °F	Lap Shear
	30.0 MPa	4350 psi	
	@Temperature 127 °C	@Temperature 260 °F	
	40.99 MPa	5945 psi	Lap Shear
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	44.0 MPa	6380 psi	
	@Temperature 22.2 °C	@Temperature 72.0 °F	Lap Shear
	7.06 kN/m	40.3 pli	
	@Temperature 83.3 °C	@Temperature 182 °F	
Peel Strength	7.85 kN/m	44.8 pli	Floating Roller Peel

Mechanical Properties	Metric	English	Comments
	@ Temperature 22.2 °C	@ Temperature 72.0 °F	Floating Roller Peel

Processing Properties	Metric	English	Comments
Shelf Life	18.0 Month	18.0 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Areal Weight (psf)	0.08	
Climbing Drum Peel (in-lb/3in)	73	72°F
Roll Width (in)	47	
Standard Roll (ft2)	540	
Support	Knitted Polyester	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China