

Hexcel® Redux® 340U(SP) (0.01 psf) Modified epoxy film adhesive for bonding metallic and composite components

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

Material Notes:

Redux® 340U(SP) is a high temperature modified epoxy film adhesive curing at 175°C (350°F). It was developed as a low weight film adhesive for space applications. It is suitable for bonding metal to metal, where operating temperatures are experienced up to 200°C (392°F) for short periods, or 180°C (356°F) for continuous operation. Redux® 340U(SP) is a hot melt film which is free from solvents and consequently has a very low volatile content. Features: Cures in 1 hour at 175°C (350°F); Good hot lap shear performance up to 180°C(356°F); Excellent metal-metal peel properties; Excellent drape and handleability; Good reticulating characteristics; very low volatile content and low outgassing properties; Only available un-supported. Applications: Metal to metal bonding; Composite to composite bonding; Space applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-Redux-340USP-001-psf-Modified-epoxy-film-adhesive-for-bonding-metallic-and-composite-components.php

Physical Properties	Metric	English	Comments
Outgassing - Total Mass Loss	0.109 %	0.109 %	Recovered Mass Loss (RML), Typical result; ESA PSS-01-702
	1.168 %	1.168 %	Total Mass Loss (TML), Typical result; ESA PSS-01-702
Collected Volatile Condensable Material	0.00 %	0.00 %	ESA PSS-01-702

Mechanical Properties	Metric	English	Comments
Shear Strength	18.0 MPa	2610 psi	Lap Shear
	@Temperature 150 °C	@Temperature 302 °F	
	30.99 MPa	4495 psi	Lap Shear
	@Temperature 22.2 °C	@Temperature 72.0 °F	
Peel Strength	5.35 kN/m	30.5 pli	Floating Roller Peel
	@Temperature 22.2 °C	@Temperature 72.0 °F	

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
Roll Width (in)	47.2	

Standard Roll (ft2) Descriptive Properties	538 Value	Comments
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