

## Hexcel® Redux® 319A High Performance Modified Epoxy Film Adhesive (0.08 psf)

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

### Material Notes:

Redux 319 is a high performance modified epoxy film adhesive curing at 350°F. It is available in both supported and unsupported versions at areal weights between 0.03 and 0.08 psf. The supported versions contain a woven nylon carrier for glue-line thickness control and improved handleability. Redux 319 is a hot melt film which is free from solvents and consequently it has a very low volatile content. Features: Cures in 60 min at 350°F; Good performance at temperatures ranging from -67°F to 300°F; Good short-term exposure performance at 350°F; Excellent peel properties; Good drape at ambient temperatures; Less than 1% volatile content. Applications: Aluminum to aluminum bonding; Fiber-reinforced composite to composite bonding; Aluminum honeycomb sandwich bonding; Aramid honeycomb sandwich bonding.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-Redux-319A-High-Performance-Modified-Epoxy-Film-Adhesive-008-psf.php](http://www.lookpolymers.com/polymer_Hexcel-Redux-319A-High-Performance-Modified-Epoxy-Film-Adhesive-008-psf.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	8.89 MPa	1290 psi	Flatwise Tensile
	@Temperature 22.2 °C	@Temperature 72.0 °F	
	8.998 MPa	1305 psi	Flatwise Tensile, Primed with Redux 119
	@Temperature 22.2 °C	@Temperature 72.0 °F	
Shear Strength	0.152 MPa	22.0 psi	Lap Shear Unprimed, 12 months at 300°F
	@Temperature 149 °C	@Temperature 300 °F	
	0.207 MPa	30.0 psi	Lap Shear Unprimed, 12 months at 300°F
	@Temperature 22.2 °C	@Temperature 72.0 °F	
	16.0 MPa	2320 psi	Lap Shear
	@Temperature 149 °C	@Temperature 300 °F	
	22.99 MPa	3335 psi	Lap Shear Unprimed, No conditioning of Redux 319
	@Temperature 149 °C	@Temperature 300 °F	
	22.99 MPa	3335 psi	Lap Shear Primed, No conditioning of Redux 319
	@Temperature 149 °C	@Temperature 300 °F	
	38.0 MPa	5510 psi	Lap Shear, Primed with Redux 119
	@Temperature 22.2 °C	@Temperature 72.0 °F	
	42.0 MPa	6090 psi	Lap Shear Unprimed, 1000 hrs in water/methanol at 72°F
	@Temperature 22.2 °C	@Temperature 72.0 °F	
	42.0 MPa	6090 psi	

Mechanical Properties	Metric @ Temperature 22.2 °C	English @ Temperature 72.0 °F	Comments Lap Shear Unprimed, 1000 hrs in Skydrol 500A at 72°F
	42.0 MPa @Temperature 22.2 °C	6090 psi @Temperature 72.0 °F	Lap Shear Unprimed, 1000 hrs in distilled water at 72°F
	42.99 MPa @Temperature 22.2 °C	6235 psi @Temperature 72.0 °F	Lap Shear Unprimed, 1000 hrs in Silcodyne 'H' at 72°F
	42.99 MPa @Temperature 22.2 °C	6235 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in distilled water at 72°F
	42.99 MPa @Temperature 22.2 °C	6235 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in water/methanol at 72°F
	42.99 MPa @Temperature 22.2 °C	6235 psi @Temperature 72.0 °F	Lap Shear Unprimed, 1000 hrs in hydraulic oil at 72°F
	44.0 MPa @Temperature 22.2 °C	6380 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in Skydrol 500A at 72°F
	44.0 MPa @Temperature 22.2 °C	6380 psi @Temperature 72.0 °F	Lap Shear Unprimed, No conditioning of Redux 319
	44.0 MPa @Temperature 22.2 °C	6380 psi @Temperature 72.0 °F	Lap Shear Unprimed, 1000 hrs in synthetic esters at 72°F
	44.0 MPa @Temperature 22.2 °C	6380 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in synthetic esters at 72°F
	44.0 MPa @Temperature 22.2 °C	6380 psi @Temperature 72.0 °F	Lap Shear Unprimed, 1000 hrs in anti-icing fluid at 72°F
	44.99 MPa @Temperature 22.2 °C	6525 psi @Temperature 72.0 °F	Lap Shear Unprimed, 1000 hrs in Kerosene fuel at 72°F
	44.99 MPa @Temperature 22.2 °C	6525 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in Kerosene fuel at 72°F
	44.99 MPa @Temperature 22.2 °C	6525 psi @Temperature 72.0 °F	Lap Shear Primed, No conditioning of Redux 319
	44.99 MPa @Temperature 22.2 °C	6525 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in Silcodyne 'H' at 72°F
	46.0 MPa @Temperature 22.2 °C	6670 psi @Temperature 72.0 °F	Lap Shear Primed, 1000 hrs in anti-icing fluid at 72°F

Mechanical Properties	Metric	English	Comments
	46.0 MPa	6670 psi	Lap Shear Primed, 1000 hrs in hydraulic oil at 72°F
	@Temperature 22.2 °C	@Temperature 72.0 °F	
Peel Strength	6.68 kN/m	38.1 pli	Bell Peel
	@Temperature 22.2 °C	@Temperature 72.0 °F	
	6.87 kN/m	39.2 pli	Bell Peel, Primed with Redux 119
	@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
Areal Weight (psf)	0.08	
Climbing Drum Peel (in-lb/3in)	103.2	72°F
	107.7	Primed with Redux 119; 72°F
Standard Roll (ft2)	430	
Support	Woven nylon carrier	

## Contact Songhan Plastic Technology Co.,Ltd.

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