Lower Assembly Time & Cost with Primerless Hybrid Adhesive

	Plexus H4110	Rivets	Tape
Body Structure Stress	Creates stiffness and integrity	Concentrated stress	+ Not forgiving under torsion
Impact Resistance	++ Allows flex with impacts	Cause stress cracks	+ Can "pop" under sudden loads
Thermal Expansion	++ Allows for movement	Cause panel ripples	+ Limited fatigue resistance
Surface Preparation	++ Primerless adhesion	++ None needed	Primers often required
Repositionable	Can be repositioned	Cannot be repositioned	Cannot be repositioned
Repairable	Possible w/o damaging panels	+ Difficult w/o damaging panel	- Difficult
Gap Filling	Can handle build tolerances	Cause panel to ripple	Only 1 sized gap per product
Dissimilar Materials	Bonds multiple materials	Can cause corrosion	+ Might not handle high ΔCTE
Joining and Sealing	One step process	Need secondary seal	Limited long term seal

Plexus H4110 is a two-part semi-structural SMP-Epoxy adhesive that bonds a variety of substrates including composites, metal and wood. Plexus H4110 forms flexible, elastic bonds that allow for joint movement.

High Throughput

Eliminates primer and activator steps

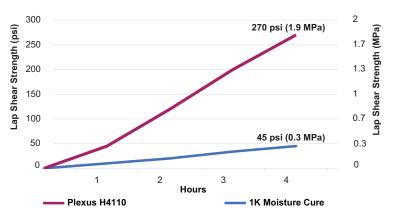
Reliable Production

Eliminates reliance on moisture and ensures consistent cure speeds

Eliminates Rework

Low/no shrinkage and exotherm results in no print through

Superior Cure Speed with Plexus H4110





Typical Properties					
Mix Ratio	1:1				
Working Time ¹ , min	9 - 11				
Handling Time ² , min	65 - 75				
80% of Cure Time, hrs	24				
Tensile Strength, psi (MPa)	950 (6.5)				
Tensile Modulus, psi (MPa)	5,800 (40)				
Elongation, %	150				
Operating Temp, °F (°C)	-40°F - 180°F (-40°C - 82°C)				
Lap Shear					
G60, psi (MPa)	300 - 500 (2.1 - 3.4)				
Aluminum, psi (MPa)	500 - 900 (3.4 - 6.2)				
Coated Steel, psi (MPa)	500 - 900 (3.4 - 6.2)				
Fiberglass, psi (MPa)	750 (5.2)				
DCPD, psi (MPa)	750 (5.2)				

Packaging

North America

Item no.		Description	Item no.	Description
41100	_	400 ml Cartridge	41000 –	400 ml Cartridge
41102	_	48.9 gal Adhesive	1739 –	185 L Activator
41104	_	48.9 gal Activator	1740 –	185 L Adhesive
Dispens				
Item no.		Description	Item no.	Description
3333	_	Static Mixer	3592 –	Static Mixer
30020	_	Manual Dispenser	30020 –	Manual Dispenser
30010	_	Pneumatic Dispenser	30010 -	Pneumatic Dispenser

EMEA

Refer to our Technical Data Sheets and Safety Data Sheets for additional technical and safety information.

2. Time to 50 psi (0.3 MPa) lap shear strength

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^{1.} The maximum allowable time to apply adhesive, mate, and position parts after mixing adhesive and activator at room temperature.