

## **Product Description**

FLEXcon's general purpose performance adhesive. This permanent acrylic adhesive offers medium tack, high shear and excellent adhesion to a variety of metal and plastic surfaces, including polypropylene, polyethylene, PORON® and Kushon® cellular rubber products.

Product	Adhesive Thickness	Adhesive Color
FLEXmount <sup>®</sup> TT 200 L-606/V-606	2.0	Clear
FLEXmount® TT 400 L-606/V-606	4.0	Clear

### Performance Benefits

- L/V-606 bonds well to metal and plastic substrates.
- Adhesive exhibits exceptional performance on textured and uneven surfaces.
- The adhesive performs within a wide service temperature range of -40°F to 302°F (-40°C to 150°C).
- Adhesive thickness, liners and films can be customized to comply with different converting, assembly and end-use requirements.

### Certification Recognition

- ISO 9001:2008 Certified Manufacturer
- UL Recognized

### **Finishing Options**

Master Log rolls can be cut to meet the needs of your manufacturing process or end use requirements. Roll sizes start at 1". For custom finishing, standard charges apply.

Product Technical Data				
Expected Exterior Life	Dependant on life of substrate; adhesive is suitable for outdoor applications			
Service Temperature Range -40°F to 302°F (-40°C to 150°C)				
Minimum Application Temperature 50°F (10°C)				
Storage Stability	Two years stored at 70°F (21°C) and 50% RH			

- Kushon® is a registered trademark of Griswald Corporation.
- PORON<sup>®</sup> is a registered trademark of Rogers Corporation.

# FLEXcon<sup>®</sup> FLEXmount<sup>®</sup> L-606/V-606 Adhesive Series

		Product T	echnical	Data: Co	ntinued				
Thickness (Mils [Microns])	Adhesive (+/- 10%) 1.9-2.1 (48-53) +/-0.1 (3)					ASTM D 3652			
		Average 15 min		Average 3 days RT		Average 3 days 160°F			
		Oz/in	(N/m)	Oz/in	(N/m)	Oz/in	(N/m)	ASTM D 3330 (Modified for dwell time)	
Peel Average 90° angle 12"/min	Acrylic			89	(979)				
5	Glass		-	86	(946)		-	(All peels laminated to 2 mil foil)	
	Polypropylene			23	(253)				
	Stainless Steel	65	(715)	83	(913)	161	(1771)		
Expected Shear	2.0 mil Clear Poly	ester			2.0 mil Alum	inum Foil		ASTM D 3654 (1 hr. dwell, 1 sq. in.	
(hours)	30				60			surface, 4 lb. load)	
	2.0 mil Clear Polye	ester			2.0 mil Alumi	inum Foil		Method A	
Tack (gm)	1650				1530	)		ASTM D 2979	
Thickness (Mils [Microns])	Adhesive (+/- 10%)	3.9-4	1 (99-104) +/-0.	2 (5)				ASTM D 3652	
		Average 15 min		Average 3 days RT		Average 3 days 160°F			
Deal Average		Oz/in	(N/m)	Oz/in	(N/m)	Oz/in	(N/m)	ASTM D 3330 (Modified for dwell time)	
Peel Average 90° angle 12″/min	Acrylic			111	(1221)			(All a sele le minete d	
	Glass	-	-	123	(1353)		-	(All peels laminated to 2 mil foil)	
	Polypropylene			41	(451)				
	Stainless Steel	78	(858)	106	(1166)	208	(2288)		
Expected Shear	4.0 mil Clear Poly	ester			4.0 mil Alum	inum Foil		ASTM D 3654 (1 hr. dwell, 1 sq. in.	
(hours)	40				surface, 4 lb. load)				
Tack (gm)	4.0 mil Clear Polye	ester			4.0 mil Alumi	inum Foil		Method A	
	1710			1440 ASTM D 29					
	Produ	uct Techn	ical Data	a: Humidit	y Resista	nce			
	Adhesive on PM 200 Clear film 2.0 mil clear polyester					90° angle 12″/min 7 days + 24 hour recovery			
Adhesion Retention	Slight ghosting, 75% adhesion gain					All testing on SS panel at 100°F and 95% RH. 24 hour dwell time on SS panel before humidity exposure			
Product Technical Data: Chemical Resistance									
Solvent				Adhesive on PM 200 Clear film 2.0 mil clear polyester				90° angle 12″/min	
	1 hour at RT in Gase	line (unleaded)		Edge penetration, 20% adhesion loss				with 24 hour recovery	
Adhesion Retention	1 hour at RT in MEK	1 hour at RT in MEK (Methyl Ethyl Ketone)72 hours at 120°F (49°C) in Oil (SAE 10w-30)			Edge penetration, 15% adhesion loss				
	72 hours at 120°F (				, 35% adhesion ga	All testing on SS panel at 100°F and 95% RH. 24 hour dwell time on SS panel before humidity			
	72 hours at RT in Sa	72 hours at RT in Salt Water (6% by weight)			, 60% adhesion ga	exposure			
	100 hours at RT in V	Vater		No visual change, 60% adhesion gain					

	Produc	t Techn	ical Data: U	L Surface	Test Resul	ts		
Application Surface	Polycarbonate Face Stock Thickness (mm)	Application Use	Temperature Range	Additional Conditions	Polyester Face Stock Thickness (mm)	Application Use	Temperature Range	Additional Conditions
Acrylic Paint (AC PT)	.127508	I/O	100°C to -40°C		.025051	1/0	150°C to -40°C	D, O, F2, G, K
Acrylic Paint (AC PT)	.127508	I/O	100°C to -40°C		.127254	1/0	150°C to -40°C	0
Acrylonitrile Butadiene Styrene (ABS)	.076508	I/O	80°C to -40°C	D, O, F2, G, K	.025051	1/0	80°C to -40°C	D, O, F2, G, K
Alkyd Paint (AK PT)	.127508	I	100°C to -40°C		.025051	I/O	150°C to -40°C	D, O, F2, G, K
Aluminum (AL)	.127508	I/O	100°C to -40°C	D, O, F2	.025051	1/0	150°C to -40°C	D, O, F2, G, K
Aluminum (AL)	.076508	I/O	80°C to -40°C	D, O, F2, G, K	.127257	1/0	150°C to -40°C	0
EPDM Rubber					.025051	I	80°C	
Epoxy (EP)	.127508	I	100°C to -40°C					
Epoxy Paint (EP PT)	.127508	I/O	100°C to -40°C		.025051	1/0	150°C to -40°C	D, O, F2, G, K
Epoxy Paint (EP PT)	.127508	I/O	100°C to -40°C		.127254	1/0	150°C to -40°C	0
Epoxy Powder Paint (RP PDR PT)	.076381	1/0	80°C	D, O	.025051	1/0	150°C to -40°C	D, O, G
Epoxy Powder Paint (RP PDR PT)	.381	I	80°C to -23°C	D, O, F2				
Galvanized Steel (GS)	.127508	I	100°C to -40°C		.025054	1/0	150°C to -40°C	D, O, F2, G, K
Melamine (ME)					.025054	1/0	100°C to -40°C	D, O, F2, G, K
Nylon - Polyamide (PA)	.127508	I	80°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K
Phenolic - Phenol Formaldehyde (PH)	.127508	I/O	100°C to -40°C		.025051	I/O	100°C to -40°C	D, O, F2, G, K
Polybutylene Terephthalate (PBT)	.127508	I/O	80°C to -40°C		.025054	I/O	80°C to -40°C	D, O, F2, G, K
Polycarbonate (PC)	.127508	I	100°C to -40°C		.025054	I/O	100°C to -40°C	D, O, F2, G, K
Polyester Paint (PER PT)					.025051	I/O	150°C to -40°C	D, O, F2, G, K
Polyester Powder Paint (PER PDR PT)	.076381	I/O	80°C	D, 0	.025051	I/O	150°C to -40°C	D, O, G
Polyester Powder Paint (PER PDR PT)	.127508	I/O	100°C to -40°C	0	.127254	I/O	150°C to -40°C	0
Polyethylene (PE)	.127508	I	80°C to -40°C		.025054	I/O	100°C to -40°C	D, O, F2, G, K
Polyethylene Terephthalite (PET)	.127508	L	80°C to -40°C					
Polyphenylene Oxide(PPO)	.127508	I	80°C to -40°C					
Polyphenylene Oxide/Ether (PPOX)	.127508	L	80°C to -40°C		.025054	I/O	80°C to -40°C	D, O, F2, G, K
Polypropylene (PP)	.127508	I	40°C		.025054	I.	80°C to -40°C	D, O, F2, G, K
Polystyrene (PS)					.025051	I/O	80°C to -40°C	D, O, F2, K
Polyurethane Paint (PUR PT)	.127508	I	80°C to -40°C		.025254	I/O	80°C to -40°C	D, O, F2, K
Polyurethane Powder Paint (PUR PDR PT)					.025051	I/O	150°C to -40°C	D, O, G
Polyvinyl Chloride (PVC)	.127508	I/O	100°C to -40°C		.025054	I/O	100°C to -40°C	D, O, F2, G, K
Porcelain (PRCLN)	.127508	I	100°C to -40°C		.025054	I/O	150°C to -40°C	D, O, F2, G, K
Stainless Steel (SS)	.076381	I/O	80°C to -40°C	D, O, F2, G, K	.025051	I/O	150°C to -40°C	D, O, F2, G, K
Stainless Steel (SS)	.127508	I/O	80°C to -40°C	0	.127254	I/O	150°C to -40°C	0
Unsaturated Polyester - Thermoset (UP)	.127508	I/O	100°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K

Application Use	Additional Conditions Key	USR Standard- UL 969
I= Indoor, O= Outdoor	D= Occasional exposure to Detergents F2= Occasional exposure to Fuel Oil #2	UL <sup>.</sup> PGGU2.MH10170; UL - PGJI2.MH16635 CUL - PGJI8.MH16635; CUL-PGG48.MH10170
I/O= Indoor and Outdoor	G= Occasional exposure to Gasoline (splashing) K= Occasional exposure to Kerosene O= Occasional exposure to lubricating oils	All tests performed on 1 to 4 mil transfer tapes

# FLEXcon® FLEXmount® L-606/V-606 Adhesive Series

Product Technical Data: Ink Adhesion								
Ink series	Facestock	Facestock Thickness (mm)	UL/CUL Regulation	Printing Process	Temperature Range	Indoor Use (Ink Color)	Outdoor Use (Ink Color)	Additional Conditions
Sun Chemical "PD"	Polycarbonate	.127508	UL	Screen	-40°C to 100°C	All	All	D, F2, G, K
Sun Chemical "PD"	Polycarbonate	.127508	cUL	Screen	-40°C to 100°C	All`	All	
Nazdar "3400"	Polycarbonate	.127508	UL	Screen	-40°C to 100°C	All	All	0
Nazdar "3400"	Polyester	.127254	cUL	Screen	-40°C to 150°C	All	All	
Nazdar "Plastijet LL"	Polyester	.127254	cUL	Screen	-40°C to 150°C	All	All	D, O, F2, G, K
Gerber "CAT"	Polyester	.127254	cUL	Screen	-40°C to 150°C	All	All	0
Polymeric "Renegade 141 Fire Red"	Polyester	.127254	cUL	Screen	-40°C to 150°C	Red	Red	D, O, F2, G, K
Sericol "301" Bright White	Polyester	.127254	cUL	Screen	-40°C to 150°C	White	White	D, O, F2, G, K

Application Use	Additional Conditions Key	USR Standard- UL 969
I= Indoor, O= Outdoor I/O= Indoor and Outdoor	D= Occasional exposure to Detergents F2= Occasional exposure to Fuel Oil #2	UL- PGGU2.MH10170; UL - PGJI2.MH16635 CUL - PGJI8.MH16635; CUL-PGG48.MH10170
	G= Occasional exposure to Gasoline (splashing) K= Occasional exposure to Kerosene O= Occasional exposure to lubricating oils	All tests performed on 1 to 4 mil transfer tapes

## Standard Differential and Double-Faced Release Liners

### 200 Poly LA, Poly C2S

2.0 mil (52 microns) clear polyester liner is smooth for uniform adhesive wet-out. Conforms to tight angles and works well for automated assembly and robotic application. Ideal for roll-to-roll or roll-to-sheet. Master Width 60"

#### 55 LA K, 55 D/F K

3.2 mil (81 micron) white densified 55 lb. kraft liner for roll-to-roll converting. Ideal for rotary diecutting. Typical end-use applications include automotive underhood and safety/hazard and warning labels. Master Width 60"

#### 60 LA PFW, 60 D/F PFW

4.3 mil (109 micron) white polycoated 60 lb. layflat liner for roll-to-roll or roll-to-sheet converting. Provides excellent moisture stability for sheet processing. Typical end-use applications include graphic overlays. Master Width 54" & 60"

#### 84 LA PFT, 84 D/F PFT

6.4 mil (163 micron) tan polycoated 84 lb. layflat liner for roll-to-sheet converting. Ideal for kiss-cutting end tabs and nameplates. Typical end-use applications include thin and rigid nameplates.

Master Width 54" & 60"

### **Application Techniques**

When applying pressure-sensitive adhesives it is necessary to provide pressure during lamination. Starting at the top peel back a 1" section of the release liner, align and apply. Using a plastic squeegee, stiff cardboard, or a soft cloth will help provide the necessary pressure at the point of lamination. Continue removing the release liner and smooth out with the squeegee. Heat can increase bond strength when bonding to metal parts (generally this same increase is observed at room temperature over longer times, weeks). For plastic parts, the bond strength is not enhanced with the addition of heat.

For best results, the application surface and the surrounding ambient atmosphere should be 50°F (10°C) or above. If applying the adhesive below 50°F (10°C), the application surface should be cleaned with isopropyl alcohol (rubbing alcohol) to insure good initial adhesion.

When bonding a thin, smooth, flexible material to a smooth surface, it is generally acceptable to use 2 mils of adhesive. If a texture is visible on one or both surfaces, the 4 mil adhesive would be suggested. If both materials are rigid, it may be necessary to use a thicker adhesive to successfully bond the components.

### Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a quide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

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