

## Product Description

FLEXmount® L-59FR portfolio consists of a series of self extinguishing, non-halogenated transfer tapes.

FLX #	FLEXcon® PRODUCT	ADHESIVE THICKNESS	ADHESIVE COLOR
068345	<b>FLEXmount® L-59FR 068345</b> 2.0 mil Transfer Tape, 84# Liner	1.9 - 2.1 mils	White
068231	<b>FLEXmount® L-59FR 068231</b> 2.0 mil Transfer Tape, 55# Liner	1.9 - 2.1 mils	White
068228	<b>FLEXmount® L-59FR 068228</b> 2.0 mil Transfer Tape, Double 50# Liner	1.9 - 2.1 mils	White
068874	<b>FLEXmount® L-59FR 068874</b> 4.0 mil Transfer Tape, 84# Liner	3.9 - 4.1 mils	White
068879	<b>FLEXmount® L-59FR 068879</b> 4.0 mil Transfer Tape, Double 50# Liner	3.9 - 4.1 mils	White

## Performance Benefits

- White fire-retardant non-halogenated adhesive.
- Adhesive adheres well to acrylic, polypropylene, stainless steel, polyethylene, and glass.
- Ideal for temperature ranges -40°F to 302°F (-40°C to 150°C).

## Regulatory Testing

- FLEXmount® L-59FR products at a 2.0 mil to 4.0 mil adhesive thickness have been rated UL 94 V-0 when coated on 2.0 mil polyimide and 2.0 mil aluminum foil. (UL File E518655).
- FLEXmount® L-59FR products at a 2.0 mil adhesive thickness pass the following test standards:
  - **Vertical 60 sec burn:** FAR 25.853 (a) Appendix F, Part I, (a), 1, (i)
  - **Vertical 12 sec burn:** FAR 25.853 (a) Appendix F, Part I, (a), 1, (ii)
  - **Heat Release:** FAR 25.853 (d) Appendix F, Part IV
  - **Smoke Density:** FAR 25.853 (d) Appendix F, Part V
  - **Toxicity Test:** BSS 7239

# FLEXmount® L-59FR (2.0 Mil Adhesive Thickness)

	SURFACE	ADHESIVE (MILS [MICRONS]) 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)	
Peel Average 90° angle 12"min	Acrylic	-	-	63	(693)	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil foil)
	Glass	-	-	53	(583)	-	-	
	Polyethylene	-	-	20	(220)	-	-	
	Polypropylene	-	-	9	(99)	-	-	
	Stainless Steel	41	(451)	51	(561)	87	(957)	

	SURFACE	ADHESIVE (MILS [MICRONS]) 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)	
Peel Average 180° angle 12"min	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil foil)
	Glass	-	-	-	-	-	-	
	Polyethylene	-	-	-	-	-	-	
	Polypropylene	-	-	-	-	-	-	
	Stainless Steel	-	-	54	(594)	-	-	

	SURFACE	ADHESIVE (MILS [MICRONS]) 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)	
Peel Average 90° angle 12"min	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil polyester)
	Glass	-	-	-	-	-	-	
	Polyethylene	-	-	-	-	-	-	
	Polypropylene	-	-	-	-	-	-	
	Stainless Steel	-	-	47	(517)	-	-	

	SURFACE	ADHESIVE (MILS [MICRONS]) 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)	
Peel Average 180° angle 12"min	Acrylic	-	-	75	(825)	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil polyester)
	Glass	-	-	60	(660)	-	-	
	Polyethylene	-	-	19	(209)	-	-	
	Polypropylene	-	-	2	(22)	-	-	
	Stainless Steel	-	-	54	(594)	-	-	

# FLEXmount® L-59FR (4.0 Mil Adhesive Thickness)

	SURFACE	ADHESIVE (MILS [MICRONS]) 3.9-4.1 (99-104) +/- 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)	
Peel Average 90° angle 12"min	Acrylic	-	-	57	(627)	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil foil)
	Glass	-	-	61	(198)	-	-	
	Polyethylene	-	-	18	(198)	-	-	
	Polypropylene	-	-	11	(121)	-	-	
	Stainless Steel	42	(462)	50	(550)	107	(1177)	

	SURFACE	ADHESIVE (MILS [MICRONS]) 3.9-4.1 (99-104) +/- 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)	
Peel Average 180° angle 12"min	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil foil)
	Glass	-	-	-	-	-	-	
	Polyethylene	-	-	-	-	-	-	
	Polypropylene	-	-	-	-	-	-	
	Stainless Steel	-	-	54	(594)	-	-	

	SURFACE	ADHESIVE (MILS [MICRONS]) 3.9-4.1 (99-104) +/- 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)	
Peel Average 90° angle 12"min	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil polyester)
	Glass	-	-	-	-	-	-	
	Polyethylene	-	-	-	-	-	-	
	Polypropylene	-	-	-	-	-	-	
	Stainless Steel	-	-	49	(539)	-	-	

	SURFACE	ADHESIVE (MILS [MICRONS]) 3.9-4.1 (99-104) +/- 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)	
Peel Average 180° angle 12"min	Acrylic	-	-	71	(781)	-	-	ASTM D 3330 (Modified for dwell time)  (All peels laminated to 2.0 mil polyester)
	Glass	-	-	58	(638)	-	-	
	Polyethylene	-	-	9	(99)	-	-	
	Polypropylene	-	-	2	(22)	-	-	
	Stainless Steel	-	-	63	(693)	-	-	

# FLEXmount® L-59FR

ADHESIVE (MILS [MICRONS]) 1.9-2.1 (48-53) +/- 0.1 (3)			
Expected Shear (hours)	2.0 mil Clear Polyester	2.0 mil Aluminum Foil	ASTM D 3652 (1 hr. dwell, 1 sq. in. surface, 4 lb. load)
	100	100	
Tack (gm)	2.0 mil Clear Polyester	2.0 mil Aluminum Foil	Method A ASTM D 2979
	980	980	

ADHESIVE (MILS [MICRONS]) 3.9-4.1 (99-104) +/- 0.1 (3)			
Expected Shear (hours)	2.0 mil Clear Polyester	2.0 mil Aluminum Foil	ASTM D 3652 (1 hr. dwell, 1 sq. in. surface, 4 lb. load)
	100	100	
Tack (gm)	2.0 mil Clear Polyester	2.0 mil Aluminum Foil	Method A ASTM D 2979
	1020	1040	

<b>Expected Exterior Life</b>	Depends on substrate; adhesive is suitable for outdoor applications
<b>Service Temperature Range</b>	-40°F to 302°F (-40°C to 150°C)
<b>Minimum Application Temperature</b>	50°F (10°C)
<b>Storage Stability</b>	Two years when stored at 70°F (21°C) and 50% relative humidity

For guidance only - the data presented are based on three or less production runs.

## Product Performance and Suitability

DISCLAIMER: FLEXcon MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, OR TRADE USAGE. The typical performance data and recommendations for using FLEXcon products shall be used only as a guide. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for its intended use. This product is a component intended solely for further processing, manufacturing, or incorporation into a finished product. Customer is solely responsible for determining whether this component product is fit for Customer's intended use, including, without limitation, incorporation into Customer's finished device(s), and for performing any additional testing that may be necessary to support Customer's intended use. Customer is solely responsible for ensuring that its use of the component product is in compliance with the applicable laws and for obtaining any necessary clearances or approvals for its use of the component product and any finished device that incorporates the component product. Full flame-retardant test results are available upon request.



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