

## 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	FlexMount® L-59FR 068345 2.0 mil Transfer Tape, 84# Liner	1.9 - 2.1 mils	White
068231	FlexMount® L-59FR 068231 2.0 mil Transfer Tape, 55# Liner	1.9 - 2.1 mils	White
068228	FlexMount® L-59FR 068228 2.0 mil Transfer Tape, Double 50# Liner	1.9 - 2.1 mils	White
068874	FlexMount® L-59FR 068874 4.0 mil Transfer Tape, 84# Liner	3.9 - 4.1 mils	White
068879	FlexMount® L-59FR 068879 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)	
<b>Peel average</b>	Acrylic	-	-	63	(693)	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	53	(583)	-	-	
<b>90° angle 12" min</b>	Polyethylene	-	-	20	(220)	-	-	(All panels laminated to 2.0 mil foil)
	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)	
<b>Peel average</b>	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	-	-	-	-	
<b>180° angle 12" min</b>	Polyethylene	-	-	-	-	-	-	(All panels laminated to 2.0 mil foil)
	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)	
<b>Peel average</b>	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	-	-	-	-	
<b>90° angle 12" min</b>	Polyethylene	-	-	-	-	-	-	(All panels laminated to 2.0 mil polyester)
	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)	
<b>Peel average</b>	Acrylic	-	-	75	(825)	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	60	(660)	-	-	
<b>180° angle 12" min</b>	Polyethylene	-	-	19	(209)	-	-	(All panels laminated to 2.0 mil polyester)
	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)	
<b>Peel average</b>	Acrylic	-	-	57	(627)	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	61	(671)	-	-	
<b>90° angle 12" min</b>	Polyethylene	-	-	18	(198)	-	-	(All panels laminated to 2.0 mil foil)
	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)	
<b>Peel average</b>	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	-	-	-	-	
<b>180° angle 12" min</b>	Polyethylene	-	-	-	-	-	-	(All panels laminated to 2.0 mil foil)
	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)	
<b>Peel average</b>	Acrylic	-	-	-	-	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	-	-	-	-	
<b>90° angle 12" min</b>	Polyethylene	-	-	-	-	-	-	(All panels laminated to 2.0 mil polyester)
	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)	
<b>Peel average</b>	Acrylic	-	-	71	(781)	-	-	ASTM D 3330 (Modified for dwell time)
	Glass	-	-	58	(638)	-	-	
<b>180° angle 12" min</b>	Polyethylene	-	-	9	(99)	-	-	(All panels laminated to 2.0 mil polyester)
	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	

Expected exterior life	Depends on 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 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.

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. This product is a device component intended solely for further processing, manufacturing, or incorporation into a finished device. 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 from its use of the component product and any finished device that incorporates the component product. Full flame-retardant test results are available upon request.

Descriptive information, performance data, and recommendations for Flexcon products are guides and not specifications. Providing this information is to assist you and does not constitute a warranty of any kind by Flexcon. Purchasers must independently determine the material's suitability for their intended use. No distributor, salesman, or representative of Flexcon is authorized to provide any warranty or guarantee beyond what is stated.