

MEV ONE-SIDED CLING CAST MACHINE FILM

.42 mil

Product Description

Evolve is Sigma's highest performance one-sided cling cast machine film designed for high-speed, challenging applications. Polypropylene enhanced formulation engineered to minimize tears and puncture propagation. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transportation. Evolve has perfect roll edge profiles and gauge consistency. Available in 500mm and 750mm widths.

Applications

High volume
 High-speed wrapping
 One-sided cling required
 Inboard loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1200 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3900 psi	± 15%	ASTM D882
Elongation at Break MD	325%	± 15%	ASTM D882
Elongation at Break TD	550%	± 15%	ASTM D882
Protrusion Puncture	2.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	18.7 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	10.6 micron	

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MEV ONE-SIDED CLING CAST MACHINE FILM

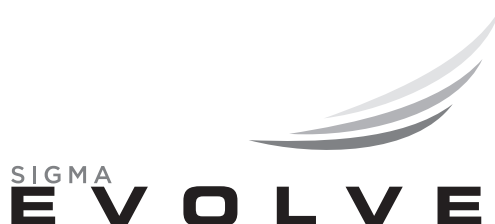
.47 mil

Product Description

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Applications

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 One-sided cling required
 Inboard loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1350 psi	± 15%	ASTM D882
Tensile Strength at Break MD	4500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4350 psi	± 15%	ASTM D882
Elongation at Break MD	370%	± 15%	ASTM D882
Elongation at Break TD	575%	± 15%	ASTM D882
Protrusion Puncture	3.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	11.4 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	12.0 micron	

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MEV ONE-SIDED CLING CAST MACHINE FILM

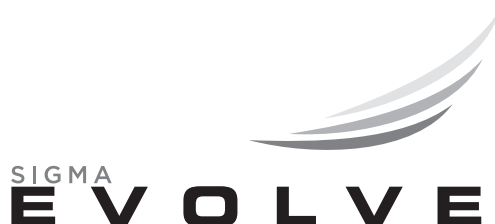
.54 mil

Product Description

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Applications

High volume
High-speed wrapping
One-sided cling required
Inboard loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1550 psi	± 15%	ASTM D882
Tensile Strength at Break MD	4000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	5000 psi	± 15%	ASTM D882
Elongation at Break MD	440%	± 15%	ASTM D882
Elongation at Break TD	590%	± 15%	ASTM D882
Protrusion Puncture	4.3 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	12.9 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	13.7 micron	

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MEV ONE-SIDED CLING CAST MACHINE FILM

.61 mil

Product Description

Evolve is Sigma's highest performance one-sided cling cast machine film designed for high-speed, challenging applications. Polypropylene enhanced formulation engineered to minimize tears and puncture propagation. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transportation. Evolve has perfect roll edge profiles and gauge consistency. Available in 500mm and 750mm widths.

Applications

High volume
 High-speed wrapping
 One-sided cling required
 Inboard loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1730 psi	± 15%	ASTM D882
Tensile Strength at Break MD	3890 psi	± 15%	ASTM D882
Tensile Strength at Break TD	5100 psi	± 15%	ASTM D882
Elongation at Break MD	460%	± 15%	ASTM D882
Elongation at Break TD	605%	± 15%	ASTM D882
Protrusion Puncture	4.9 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	14.4 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	15.5 micron	

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MEV ONE-SIDED CLING CAST MACHINE FILM

.80 mil

Product Description

Evolve is Sigma's highest performance one-sided cling cast machine film designed for high-speed, challenging applications. Polypropylene enhanced formulation engineered to minimize tears and puncture propagation. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transportation. Evolve has perfect roll edge profiles and gauge consistency. Available in 500mm and 750mm widths.

Applications

High volume
 High-speed wrapping
 One-sided cling required
 Inboard loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	2300 psi	± 15%	ASTM D882
Tensile Strength at Break MD	3700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	6000 psi	± 15%	ASTM D882
Elongation at Break MD	525%	± 15%	ASTM D882
Elongation at Break TD	650%	± 15%	ASTM D882
Protrusion Puncture	6.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	16.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	20.3 micron	

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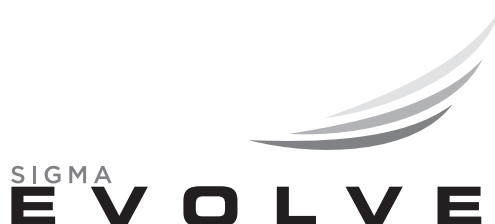
.41 mil

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Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1200 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3900 psi	± 15%	ASTM D882
Elongation at Break MD	325%	± 15%	ASTM D882
Elongation at Break TD	550%	± 15%	ASTM D882
Protrusion Puncture	2.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	18.7 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	10.4 micron	

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MEV ONE-SIDED CLING CAST MACHINE FILM

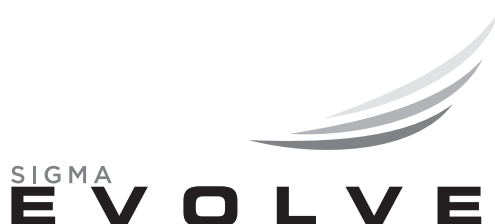
.45 mil

Product Description

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Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1350 psi	± 15%	ASTM D882
Tensile Strength at Break MD	4500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4350 psi	± 15%	ASTM D882
Elongation at Break MD	350%	± 15%	ASTM D882
Elongation at Break TD	575%	± 15%	ASTM D882
Protrusion Puncture	3.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	11.4 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	11.4 micron	

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MEV ONE-SIDED CLING CAST MACHINE FILM

.50 mil

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Applications

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 High-speed wrapping
 One-sided cling required
 Inboard loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	N/A	N/A	N/A
Tensile Strength at Yield TD	1400 psi	± 15%	ASTM D882
Tensile Strength at Break MD	4000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4600 psi	± 15%	ASTM D882
Elongation at Break MD	420%	± 15%	ASTM D882
Elongation at Break TD	580%	± 15%	ASTM D882
Protrusion Puncture	4.3 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	13.5 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	650 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	970 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	12.7 micron	

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