

# MIT ONE-SIDED CLING MACHINE FILM

## .50 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	450%	± 15%	ASTM D882
Elongation at Break TD	570%	± 15%	ASTM D882
Protrusion Puncture	9.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	15.5 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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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## MIT ONE-SIDED CLING MACHINE FILM

### .55 mil

#### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

#### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	470%	± 15%	ASTM D882
Elongation at Break TD	590%	± 15%	ASTM D882
Protrusion Puncture	10.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	17.1 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	14.0 micron	

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# MIT ONE-SIDED CLING MACHINE FILM

## .60 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	480%	± 15%	ASTM D882
Elongation at Break TD	600%	± 15%	ASTM D882
Protrusion Puncture	10.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	18.6 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	15.2 micron	

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## MIT ONE-SIDED CLING MACHINE FILM

**.63 mil**

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	480%	± 15%	ASTM D882
Elongation at Break TD	590%	± 15%	ASTM D882
Protrusion Puncture	10.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	19.6 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	16 micron	

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## MIT ONE-SIDED CLING MACHINE FILM

### .65 mil

#### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

#### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	480%	± 15%	ASTM D882
Elongation at Break TD	590%	± 15%	ASTM D882
Protrusion Puncture	10.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	19.6 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	16.5 micron	

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## MIT ONE-SIDED CLING MACHINE FILM

### .70 mil

#### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

#### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	500%	± 15%	ASTM D882
Elongation at Break TD	620%	± 15%	ASTM D882
Protrusion Puncture	11.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	21.5 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	17.8 micron	

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# MIT ONE-SIDED CLING MACHINE FILM

## .75 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1350 psi	N/A	N/A
Tensile Strength at Yield TD	1250 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4000 psi	± 15%	ASTM D882
Elongation at Break MD	500%	± 15%	ASTM D882
Elongation at Break TD	620%	± 15%	ASTM D882
Protrusion Puncture	11.8 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	23.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	19.0 micron	

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## MIT ONE-SIDED CLING MACHINE FILM

### .80 mil

#### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

#### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1300 psi	N/A	N/A
Tensile Strength at Yield TD	1200 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6600 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3900 psi	± 15%	ASTM D882
Elongation at Break MD	510%	± 15%	ASTM D882
Elongation at Break TD	630%	± 15%	ASTM D882
Protrusion Puncture	12.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	24.6 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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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# MIT ONE-SIDED CLING MACHINE FILM

## .90 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1300 psi	N/A	N/A
Tensile Strength at Yield TD	1200 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6600 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3900 psi	± 15%	ASTM D882
Elongation at Break MD	520%	± 15%	ASTM D882
Elongation at Break TD	650%	± 15%	ASTM D882
Protrusion Puncture	13 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	27.6 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	300 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	600 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	22.9 micron	

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## MIT ONE-SIDED CLING MACHINE FILM

### 1.00 mil

#### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

#### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1250 psi	N/A	N/A
Tensile Strength at Yield TD	1150 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3800 psi	± 15%	ASTM D882
Elongation at Break MD	530%	± 15%	ASTM D882
Elongation at Break TD	640%	± 15%	ASTM D882
Protrusion Puncture	14.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	31.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	290 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	590 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	25.4 micron	

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# MIT ONE-SIDED CLING MACHINE FILM

## 1.05 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1250 psi	N/A	N/A
Tensile Strength at Yield TD	1150 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3800 psi	± 15%	ASTM D882
Elongation at Break MD	540%	± 15%	ASTM D882
Elongation at Break TD	640%	± 15%	ASTM D882
Protrusion Puncture	14.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	32.6 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	290 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	590 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	26.7 micron	

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## MIT ONE-SIDED CLING MACHINE FILM

### 1.10 mil

#### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

#### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1250 psi	N/A	N/A
Tensile Strength at Yield TD	1150 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3800 psi	± 15%	ASTM D882
Elongation at Break MD	530%	± 15%	ASTM D882
Elongation at Break TD	640%	± 15%	ASTM D882
Protrusion Puncture	14.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	31.1 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	290 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	590 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	27.9 micron	

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# MIT ONE-SIDED CLING MACHINE FILM

## 1.15 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1250 psi	N/A	N/A
Tensile Strength at Yield TD	1150 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3800 psi	± 15%	ASTM D882
Elongation at Break MD	530%	± 15%	ASTM D882
Elongation at Break TD	630%	± 15%	ASTM D882
Protrusion Puncture	14.1 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	35.8 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	290 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	590 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	29.2 micron	

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# MIT ONE-SIDED CLING MACHINE FILM

## 1.20 mil

### Product Description

Sigma's best-selling, high-performance one-sided cling cast machine film. Engineered especially for high-speed applications. One-sided cling allows side-by-side storage without pallet-to-pallet adhesion, preventing pallets from adhering together during storage and transport. Available in 20 and 30 inch widths.

### Applications

Bagged products  
 Boxed products  
 Fully automatic equipment  
 Bundling applications  
 High-speed overhead equipment  
 Loads requiring one-sided cling

Loads requiring film clarity  
 A, B, and C-load profiles  
 Inboard/outboard loads  
 Distribution center mixed pallets  
 Light to heavy weight containers



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1250 psi	N/A	N/A
Tensile Strength at Yield TD	1150 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	3800 psi	± 15%	ASTM D882
Elongation at Break MD	540%	± 15%	ASTM D882
Elongation at Break TD	640%	± 15%	ASTM D882
Protrusion Puncture	14.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	37.3 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	290 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	590 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	30.5 micron	

**Manufactured with pride in the USA and Canada by  
 Sigma Stretch Film**

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