

## HBH CLASSIC BLOWN HAND FILM .51 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	360%	± 15%	ASTM D882
Elongation at Break TD	580%	± 15%	ASTM D882
Protrusion Puncture	6.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	10.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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 micron	

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## HBH CLASSIC BLOWN HAND FILM .55 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	360%	± 15%	ASTM D882
Elongation at Break TD	580%	± 15%	ASTM D882
Protrusion Puncture	6.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	10.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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 micron	

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# HBH CLASSIC BLOWN HAND FILM

## .60 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	400%	± 15%	ASTM D882
Elongation at Break TD	500%	± 15%	ASTM D882
Protrusion Puncture	8.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	12.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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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## HBH CLASSIC BLOWN HAND FILM .63 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block  
Warehouse  
Irregular loads  
Transportation industry  
Food distribution

Bagged products  
Boxed products  
Universal application



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	400%	± 15%	ASTM D882
Elongation at Break TD	650%	± 15%	ASTM D882
Protrusion Puncture	8.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	12.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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	16.0 micron	

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# HBH CLASSIC BLOWN HAND FILM

## .65 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	400%	± 15%	ASTM D882
Elongation at Break TD	650%	± 15%	ASTM D882
Protrusion Puncture	8.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	12.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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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# HBH CLASSIC BLOWN HAND FILM

## .70 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6900 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4700 psi	± 15%	ASTM D882
Elongation at Break MD	410%	± 15%	ASTM D882
Elongation at Break TD	680%	± 15%	ASTM D882
Protrusion Puncture	8.6 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	13.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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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## HBH CLASSIC BLOWN HAND FILM .75 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6900 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4700 psi	± 15%	ASTM D882
Elongation at Break MD	470%	± 15%	ASTM D882
Elongation at Break TD	700%	± 15%	ASTM D882
Protrusion Puncture	8.6 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	17.5 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	140 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	750 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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# HBH CLASSIC BLOWN HAND FILM

## .80 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6800 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4600 psi	± 15%	ASTM D882
Elongation at Break MD	470%	± 15%	ASTM D882
Elongation at Break TD	720%	± 15%	ASTM D882
Protrusion Puncture	8.8 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	15.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	150 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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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# HBH CLASSIC BLOWN HAND FILM

## .85 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4500 psi	± 15%	ASTM D882
Elongation at Break MD	460%	± 15%	ASTM D882
Elongation at Break TD	750%	± 15%	ASTM D882
Protrusion Puncture	9.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	16.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	150 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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	21.6 micron	

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# HBH CLASSIC BLOWN HAND FILM

## .90 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6700 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4500 psi	± 15%	ASTM D882
Elongation at Break MD	465%	± 15%	ASTM D882
Elongation at Break TD	750%	± 15%	ASTM D882
Protrusion Puncture	9.2 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	17.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	150 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	500 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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# HBH CLASSIC BLOWN HAND FILM

## 1.00 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6600 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4300 psi	± 15%	ASTM D882
Elongation at Break MD	530%	± 15%	ASTM D882
Elongation at Break TD	720%	± 15%	ASTM D882
Protrusion Puncture	9.3 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	22.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	120 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	750 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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## HBH CLASSIC BLOWN HAND FILM 1.10 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block  
Warehouse  
Irregular loads  
Transportation industry  
Food distribution

Bagged products  
Boxed products  
Universal application



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1700 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1800 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4400 psi	± 15%	ASTM D882
Elongation at Break MD	550%	± 15%	ASTM D882
Elongation at Break TD	800%	± 15%	ASTM D882
Protrusion Puncture	10.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	26.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	130 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	700 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	28.0 micron	

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# HBH CLASSIC BLOWN HAND FILM

## 1.15 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1700 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1800 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4400 psi	± 15%	ASTM D882
Elongation at Break MD	600%	± 15%	ASTM D882
Elongation at Break TD	850%	± 15%	ASTM D882
Protrusion Puncture	11.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	29.9 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	130 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	700 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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# HBH CLASSIC BLOWN HAND FILM

## 1.20 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1700 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1800 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4400 psi	± 15%	ASTM D882
Elongation at Break MD	600%	± 15%	ASTM D882
Elongation at Break TD	850%	± 15%	ASTM D882
Protrusion Puncture	11.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	29.9 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	130 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	700 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	

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# HBH CLASSIC BLOWN HAND FILM

## 1.35 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1700 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1800 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4400 psi	± 15%	ASTM D882
Elongation at Break MD	600%	± 15%	ASTM D882
Elongation at Break TD	850%	± 15%	ASTM D882
Protrusion Puncture	11.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	24.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	130 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	700 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	34.3 micron	

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# HBH CLASSIC BLOWN HAND FILM

## 1.50 mil

### Product Description

General purpose, blown hand film ideal for challenging load profiles. Bi-axial molecular orientation provides strong puncture and tear resistance. Aggressive cling package designed to minimize film tails and stay secure. Available in a wide range of gauges and sizes from 11 inches to 18 inches.

### Applications

Brick and block	Bagged products
Warehouse	Boxed products
Irregular loads	Universal application
Transportation industry	
Food distribution	



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1700 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1800 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6500 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4400 psi	± 15%	ASTM D882
Elongation at Break MD	610%	± 15%	ASTM D882
Elongation at Break TD	850%	± 15%	ASTM D882
Protrusion Puncture	11.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	27.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	130 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	700 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	38.1 micron	

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

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