

## STEEL ONE-SIDED CLING CAST HAND FILM 42g

### Product Description

High-performance, one-sided cling cast hand film. Engineered to “lock up” at 75% stretch for easy application and strong load containment. Sigma Steel is high clarity and easy unwind with high puncture resistance. Available in 310mm, 400mm, and 425mm.

### Applications

Grocery  
High-volume distribution  
General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No yield	± 15%	ASTM D882
Tensile Strength at Yield TD	1440 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6190 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4690 psi	± 15%	ASTM D882
Elongation at Break MD	300%	± 15%	ASTM D882
Elongation at Break TD	555%	± 15%	ASTM D882
Protrusion Puncture	7.1 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	22.8 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	230 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	650 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 130 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	10.7 micron	

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Sigma Stretch Film**

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## STEEL ONE-SIDED CLING CAST HAND FILM 47g

### Product Description

High-performance, one-sided cling cast hand film. Engineered to “lock up” at 75% stretch for easy application and strong load containment. Sigma Steel is high clarity and easy unwind with high puncture resistance. Available in 310mm, 400mm, and 425mm.

### Applications

Grocery  
High-volume distribution  
General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No yield	± 15%	ASTM D882
Tensile Strength at Yield TD	1440 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6100 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4600 psi	± 15%	ASTM D882
Elongation at Break MD	310%	± 15%	ASTM D882
Elongation at Break TD	540%	± 15%	ASTM D882
Protrusion Puncture	7.2 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	25.5 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	230 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	650 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 130 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	11.9 micron	

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# STEEL ONE-SIDED CLING CAST HAND FILM

## 52g

### Product Description

High-performance, one-sided cling cast hand film. Engineered to “lock up” at 75% stretch for easy application and strong load containment. Sigma Steel is high clarity and easy unwind with high puncture resistance. Available in 310mm, 400mm, and 425mm.

### Applications

Grocery  
 High-volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No yield	± 15%	ASTM D882
Tensile Strength at Yield TD	1440 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6100 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4600 psi	± 15%	ASTM D882
Elongation at Break MD	315%	± 15%	ASTM D882
Elongation at Break TD	540%	± 15%	ASTM D882
Protrusion Puncture	7.8 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	28.2 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	230 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	650 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 130 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	13.2 micron	

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## STEEL ONE-SIDED CLING CAST HAND FILM 57g

### Product Description

High-performance, one-sided cling cast hand film. Engineered to “lock up” at 75% stretch for easy application and strong load containment. Sigma Steel is high clarity and easy unwind with high puncture resistance. Available in 310mm, 400mm, and 425mm.

### Applications

Grocery  
High-volume distribution  
General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No yield	± 15%	ASTM D882
Tensile Strength at Yield TD	1440 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6100 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4600 psi	± 15%	ASTM D882
Elongation at Break MD	325%	± 15%	ASTM D882
Elongation at Break TD	550%	± 15%	ASTM D882
Protrusion Puncture	8.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	30.9 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	230 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	650 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 130 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	14.5 micron	

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