

## HSP42 PCR CAST HAND FILM 42G

### Product Description

Sigma Sustain360 is a stiff, engineered, ultra-premium cast hand film with 30% PCR. It has one sided cling, high puncture resistance, and exceptional toughness. With light rolls and easy unwind, this film is designed with user comfort in mind. Available in 18 inch width.

### Applications

Grocery  
 High volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No Yield	N/A	N/A
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	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05%	76.2 mm	±1.3 mm
Film Thickness	11.9 micron			

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## HSP47 PCR CAST HAND FILM 47G

### Product Description

Sigma Sustain360 is a stiff, engineered, ultra-premium cast hand film with 30% PCR. It has one sided cling, high puncture resistance, and exceptional toughness. With light rolls and easy unwind, this film is designed with user comfort in mind. Available in 18 inch width.

### Applications

Grocery  
 High volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No Yield	N/A	N/A
Tensile Strength at Yield TD	1440 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6170 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4670 psi	± 15%	ASTM D882
Elongation at Break MD	303%	± 15%	ASTM D882
Elongation at Break TD	555%	± 15%	ASTM D882
Protrusion Puncture	7.2 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	23.9 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	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05%	76.2 mm	±1.3 mm
Film Thickness	11.9 micron			

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## HSP60 PCR CAST HAND FILM

### Product Description

Sigma Sustain360 is a stiff, engineered, ultra-premium cast hand film with 30% PCR. It has one sided cling, high puncture resistance, and exceptional toughness. With light rolls and easy unwind, this film is designed with user comfort in mind. Available in 18 inch width.

### Applications

Grocery  
 High volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No Yield	N/A	N/A
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	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05%	76.2 mm	±1.3 mm
Film Thickness	10.7 micron			

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## HSP70 PCR CAST HAND FILM

### Product Description

Sigma Sustain360 is a stiff, engineered, ultra-premium cast hand film with 30% PCR. It has one sided cling, high puncture resistance, and exceptional toughness. With light rolls and easy unwind, this film is designed with user comfort in mind. Available in 18 inch width.

### Applications

Grocery  
 High volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No Yield	N/A	N/A
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	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05%	76.2 mm	±1.3 mm
Film Thickness	11.9 micron			

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## HSP80 PCR CAST HAND FILM

### Product Description

Sigma Sustain360 is a stiff, engineered, ultra-premium cast hand film with 30% PCR. It has one sided cling, high puncture resistance, and exceptional toughness. With light rolls and easy unwind, this film is designed with user comfort in mind. Available in 18 inch width.

### Applications

Grocery  
 High volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No Yield	N/A	N/A
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	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05%	76.2 mm	±1.3 mm
Film Thickness	13.2 micron			

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## HSP90 PCR CAST HAND FILM

### Product Description

Sigma Sustain360 is a stiff, engineered, ultra-premium cast hand film with 30% PCR. It has one sided cling, high puncture resistance, and exceptional toughness. With light rolls and easy unwind, this film is designed with user comfort in mind. Available in 18 inch width.

### Applications

Grocery  
 High volume distribution  
 General wrapping



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	No Yield	N/A	N/A
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	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05%	76.2 mm	±1.3 mm
Film Thickness	14.5 micron			

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