



Technical Information and Typical Properties

Steel90 Cast Hand Film One Sided Cling Cast Hand Film



Product Description

Sigma Steel is a stiff, engineered, ultra-premium cast hand film. 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.

General

Applications •Grocery •High volume distribution •General wrapping
Revision Date 6/22/2015 Available in 310mm, 400mm, and 425mm widths

Film Properties	Typical Value (English)		Typical Value (SI)		Test Method
	Value	Tolerance	Value	Tolerance	
Tensile Strength at Yield MD	No Yield	--	No Yield	--	ASTM D882
Tensile Strength at Yield TD	1440psi	± 15%	9.9 mPa	± 15%	ASTM D882
Tensile Strength at Break MD	6100psi	± 15%	42.1 mPa	± 15%	ASTM D882
Tensile Strength at Break TD	4600psi	± 15%	31.7 mPa	± 15%	ASTM D882
Elongation at Break MD	325%	± 15%	325%	± 15%	ASTM D882
Elongation at Break TD	550%	± 15%	550%	± 15%	ASTM D882
Protrusion Puncture	8.5 lbs	± 15%	3.9 kg	± 15%	ASTM D5748
Protrusion Puncture Energy	30.9 in-lb	± 15%	3.5 N-m	± 15%	ASTM D5748
Elmendorf Tear Strength MD	230 g/mil	± 15%	9.1 g/micron	± 15%	ASTM D1922
Elmendorf Tear Strength TD	650 g/mil	± 15%	25.6 g/micron	± 15%	ASTM D1922
Cling - Outside to Inside @ 100%	min 130 g/in	± 15%	min 51 g/cm	± 15%	ASTM D5458

Dimensions	Value	Tolerance	Value (SI)	Tolerance
Core ID	3.05 inches	± 0.05 in	76.2 mm	± 1.3 mm
Film Thickness	14.5 micron			

Manufactured with pride in the USA and Canada by

Sigma Stretch Film

Page & Schuyler Aves. Bldg #8

Phone: 800-672-9727 • 201-507-9100

Email: stretch.info@sigmaplastics.com

Visit our website at www.sigmastretchfilm.com

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