



## Technical Information and Typical Properties

### ENDURE Blown Hand Film .80 mil




---

#### Product Description

Sigma ENDURE is produced based on our most popular blown hand film formulation with the added benefit of 25% PCR(Post Consumer Recyclate), up to 50% other recycled materials, and 25% virgin raw material. It has high puncture resistance, cling, and stiffness. ENDURE can be used in almost any hand film application because of its toughness and is engineered to be the most sustainable product in this market segment.

---

#### General

Applications                      Toughness required                      hand wrapping  
Revision Date                      6/22/2015                      Available in widths from 11"-18"

Film Properties	Typical Value		
	(English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700psi	± 15%	ASTM D882
Tensile Strength at Break MD	6800psi	± 15%	ASTM D882
Tensile Strength at Break TD	4600psi	± 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 D1922
Elmendorf Tear Strength TD	500 g/mil	± 15%	ASTM D1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

---

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05 in
Film Thickness	20.3 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: [Sigma.info@sigmaplastics.com](mailto:Sigma.info@sigmaplastics.com)

Visit our website at [www.sigmastretchfilm.com](http://www.sigmastretchfilm.com)

©Copyright 2021 Sigma Stretch Film