

## HAA OPAQUE BLOWN HAND FILM

### .65 mil

#### Product Description

Sigma Stretch Film's Opaque Blown Hand Film excels in concealing valuable goods while offering exceptional containment properties.

#### 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	

**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](mailto:stretch.info@sigmaplastics.com)  
Visit our website at [www.sigmastretchfilm.com](http://www.sigmastretchfilm.com)  
©Copyright 2018 Sigma Stretch Film