



Technical Information and Typical Properties

HAA Opaque Blown Hand Film

.70 mil

Product Description

HAA is Sigmas Opaque black blown handfilm. It is ideal for concealing valuable products and has outstanding containment attributes.

General

Applications •Brick & Block•Warehouse•Irregular Loads•Transportation Industry•Food
 Distribution•Bagged Products•Boxed Products•All Applications
 Revision Date 6/22/2015 Available in widths from 11"-18"

Film Properties	Typical Value		Test Method
	(English)	Tolerance	
Tensile Strength at Yield MD	1600 psi	± 15%	ASTM D882
Tensile Strength at Yield TD	1700psi	± 15%	ASTM D882
Tensile Strength at Break MD	6900 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4700psi	± 15%	ASTM D882
Elongation at Break MD	470%	± 15%	ASTM D882
Elongation at Break TD	700%	± 15%	ASTM D882
Protrusion Puncture	8.6lbs	± 15%	ASTM D5748
Protrusion Puncture Energy	17.5 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	140 g/mil	± 15%	ASTM D1922
Elmendorf Tear Strength TD	750 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	17.8 micron	

Manufactured with pride in the USA and Canada by

Sigma Stretch Film

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