



# Polyolefin Shrink Film - HS

## Specifications

Omnia USA film is a coextruded biaxially oriented 5 layer shrinkable polyolefin film, suitable for any kind of packaging purpose. Due to its remarkable mechanical resistance, transparency, gloss, weldability, and shrink ability it is well suited for both semi-automatic and automatic packaging machines.

Omnia USA films. They do not contain starch, silicone or heavy metals like arsenic, antimony, chromium, lead, mercury, and selenium. They are made with 100% polyolefinic formulations.

### TYPICAL PROPERTIES

Gauge		45	60	75	100
	Unit	Test Method			
Yield	Sq. in. per pound	66,000	50,000	40,000	30,000
<b>Tensile properties:</b>		<b>MD</b>	<b>TD</b>	<b>MD</b>	<b>TD</b>
Modulus of elasticity	N/mm <sup>2</sup>	D-882A	320 360	310 350	300 380
Tensile strength	N/mm <sup>2</sup>	D-882	100 100	100 100	100 100
Elongation	%	D-882	100 100	120 120	130 130
Seal Strength	gr/cm	Int. meth.	855	1025	1300
	gr/cm <sup>2</sup>				1655
Tear propagation	gr	D-1922	6.5	8.5	10.5
Cof. film-film, kinetic	adim.	D-1894	0.3	0.4	0.4
Shrink at 250°F	%	<b>MD</b>	<b>TD</b>	<b>MD</b>	<b>TD</b>
		68 68	60 65	60 65	60 65
Gas permeability:					
WVTR	gr/m <sup>2</sup> 24h	E-96	18	16	12.5
O <sup>2</sup> permeability	gr/m <sup>2</sup> 24h/am	D-3985	18000	12000	10000
CO <sup>2</sup> transmission	gr/m <sup>2</sup> 24h/am	D-1434	20000	19800	17000
<b>Optical properties:</b>					
Haze	%	D-1003	1.5	1.8	2.2
Gloss	photoc.	D-2457	145	145	145

These are typical values for Omnia shrink film. They are not intended for use as limiting specifications. Omnia shall have no liability whatever for the results obtained through use of this data. Dry storage below 90°F is recommended. Prolonged exposure to temperature above 90°F may cause difficulty in unwinding film.

Allow for +/-10% manufacturing tolerance

### AVAILABILITY

Gauge		45	60	75	100
<b>Rolls Lengths</b>					
Flat film	Ft	10,500	8,750	7,000	5,250
Folded film	Ft	5,250	4,375	3,500	2,626
<b>Rolls width:</b>					
Flat film	In	from 4 to 90			
Folded film	In	from 4 to 90			
Inner diameter	In	3			
Outer diameter	In	9.5			
<b>Weight:</b>					
Net Roll weight (per inch)	Lbs.	2.20	2.20	2.20	2.20
Packaged Roll (per inch)	Lbs.	2.28	2.28	2.28	2.28