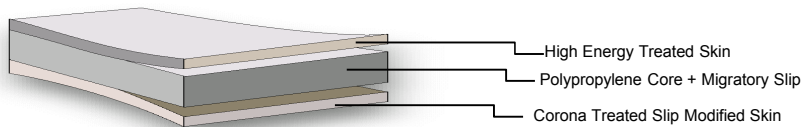


VS - Slip Modified

BIAXIALLY ORIENTED POLYPROPYLENE FILM
NON-HEAT SEALABLE, TWO SIDE TREATED



AMTOPP BOPP FILMS

Characteristics

- Non-Heat Sealable
- Stable COF Formula
- High Energy Flame Treated for excellent ink adhesion and adhesive and extrusion lamination bonds
- Superior Optical Properties
- Excellent Flatness

Applications

- Outer web of film/film, film/paper, and film/PE laminations
- Roll-fed bottle label laminated to itself or AmTopp cavitated white PL film

TECHNICAL DATA

PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUES				
			VS15	VS18	VS19	VS25	VS30
THICKNESS	AmTopp	mil (μm)	0.59 (15)	0.70 (18)	0.74 (19)	0.97 (25)	1.19 (30)
YIELD	AmTopp	in ² /lb (m ² /kg)	51,800 (73.6)	44,000 (62.5)	41,100 (58.4)	31,400 (44.6)	25,700 (36.5)
TENSILE STRENGTH (MD)	ASTM D 882	lb/in ² (kg/cm ²)	20,000 (1,400)				
TENSILE STRENGTH (TD)	ASTM D 882	lb/in ² (kg/cm ²)	32,000 (2,250)				
ELONGATION AT BREAK (MD)	ASTM D 882	%	140				
ELONGATION AT BREAK (TD)	ASTM D 882	%	60				
COEFFICIENT OF FRICTION (Corona treated side)	ASTM D 1894	Dynamic	0.20				
COEFFICIENT OF FRICTION (Corona treated side)	ASTM D 1894	Static	0.25				
HAZE	ASTM D 1003	%	2.0				
GLOSS (45 DEG)	ASTM D 2457	G.U.	90				
WATER VAPOR TRANSMISSION RATE	ASTM F 1249 100°F (38°C), 90% RH	g/100in ² /24h (g/m ² /24h)	0.50 (7.8)	0.45 (7.0)	0.40 (6.2)	0.30 (4.7)	0.20 (3.1)
DIMENSIONAL STABILITY (MD)	266 °F, 5min (130° C, 5 min)	%	<5				
DIMENSIONAL STABILITY (TD)	266 °F, 5min (130° C, 5 min)	%	<3				
SURFACE ENERGY (High Energy Flame Side)	ASTM D 2578	dyne/cm	40				
SURFACE ENERGY (Corona Treated Side)	ASTM D 2578	dyne/cm	36				

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The above properties and results obtained refer to the average values of laboratory testing carried out on sample AmTopp product. AmTopp does not guarantee testing accuracy and makes no guarantee of product performance, safety or suitability, either expressed or implied, when used alone or in combination with other products. AmTopp strongly urges users to undertake independent testing in order to verify the suitability of the product for whatever intended use. AmTopp assumes no responsibility for any damage or injury sustained as a result of the use of its products.