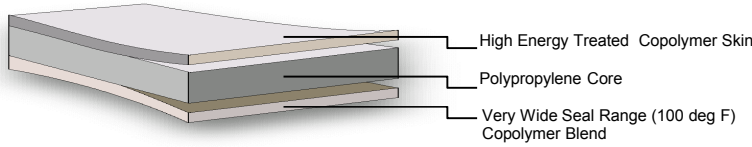


VA - Laminating CoEx Heat Sealable

BIAXIALLY ORIENTED POLYPROPYLENE FILM, SLIP STABLE
ONE SIDE SEALABLE FOR FOOD PACKAGING



AMTOPP BOPP FILMS

Characteristics

- Very Wide Heat Seal Range
- Stable Slip System on Untreated Sealant Face
- High Energy Flame Treated for excellent ink adhesion and adhesive and extrusion lamination bonds
- Superior Optical Properties
- Good Hot Tack
- Excellent Flatness

Applications

- Can be used for both the printable outer web and/or sealable inner web in extrusion and adhesive laminations for VFFS and HFFS applications
- Compatible with water based inks and adhesives
- NOT for use in single web applications

TECHNICAL DATA

PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUES				
			VA18	VA20	VA22	VA25	VA30
THICKNESS	AmTopp	mil (μm)	0.70 (18)	.79 (20)	.89 (22)	.99 (25)	1.19 (30)
YIELD	AmTopp	in ² /lb (m ² /kg)	44,000 (62.5)	38,700 (55.0)	34,300 (48.8)	31,000 (44.0)	25,700 (36.5)
HEAT SEAL INITIATION (UNTREATED SIDE)	1/2 sec, 30 PSI,	Deg F (Deg C)	200 (93)				
TENSILE STRENGTH (MD)	ASTM D 882	lb/in ² (kg/cm ²)	17,000 (1,200)				
TENSILE STRENGTH (TD)	ASTM D 882	lb/in ² (kg/cm ²)	30,000 (2,100)				
ELONGATION AT BREAK (MD)	ASTM D 882	%	190				
ELONGATION AT BREAK (TD)	ASTM D 882	%	70				
COEFFICIENT OF FRICTION (NT/NT)	ASTM D 1894	Dynamic	0.25				
COEFFICIENT OF FRICTION (NT/NT)	ASTM D 1894	Static	0.35				
HAZE	ASTM D 1003	%	2.5 - 3.5				
GLOSS (45 DEG)	ASTM D 2457	G.U.	85				
WATER VAPOR TRANSMISSION RATE	ASTM F 1249 100°F (38°C), 90% RH	g/100in ² /24h (g/m ² /24h)	0.45 (7.0)	0.40 (6.2)	0.38 (5.9)	0.35 (5.4)	0.30 (4.7)
DIMENSIONAL STABILITY (MD)	266 °F, 5min (130° C, 5 min)	%	<5				
DIMENSIONAL STABILITY (TD)	266 °F, 5min (130° C, 5 min)	%	<3				
SURFACE ENERGY	ASTM D 2578	dyne/cm	40				

Rev. January 2014

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.