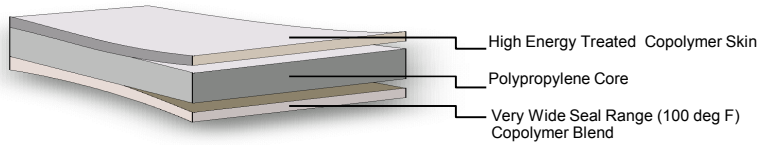


VAB - Reduced WVTR CoEx Heat Sealable

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



AMTOPP BOPP FILMS

Characteristics

- Very Wide Heat Seal Range
- Reduced WVTR
- 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

- Snack packaging for HFFS and single web applications

TECHNICAL DATA

PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUES
			VAB30
THICKNESS	AmTopp	mil (μm)	1.19 (30)
YIELD	AmTopp	in ² /lb (m ² /kg)	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)	19,000 (1,340)
TENSILE STRENGTH (TD)	ASTM D 882	lb/in ² (kg/cm ²)	38,000 (2,670)
ELONGATION AT BREAK (MD)	ASTM D 882	%	200
ELONGATION AT BREAK (TD)	ASTM D 882	%	60
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	%	3
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)	0.20 (3.1)
OXYGEN TRANSMISSION RATE	ASTM D3985 72°F (22°C), 0% RH	cc/100in ² /24h (cc/m ² /24h)	45 (305)
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

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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.