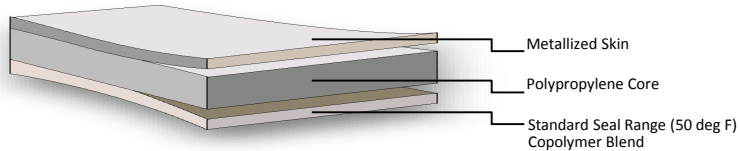


HM - Metallized CoEx Heat Sealable

BIAXIALLY ORIENTED POLYPROPYLENE FILM
ONE SIDE SEALABLE FOR FOOD PACKAGING

AMTOPP BOPP FILMS



Characteristics

- Standard Heat Seal Range
- Superior metal adhesion and resistance to "crazing" of metal layer
- Good Moisture Barrier and moderate OTR
- Excellent Flatness

Applications

- Inner web of adhesive lamination for snack food packaging
- Heat Sealable Pouches
- Surface printed specialty overwrap for heat sealed ice cream and candy packages

TECHNICAL DATA

PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUES		
			HM18	HM20	HM30
THICKNESS	AmTopp	mil (μm)	0.70 (18)	0.79 (20)	1.19 (30)
YIELD	AmTopp	in^2/lb (m^2/kg)	44,000 (62.5)	38,700 (55.0)	25,700 (36.5)
HEAT SEAL INITIATION	1/2 sec, 30 PSI	Deg F (Deg C)	250 (121)		
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		
OPACITY	ASTM D589-97	%	>99		
OPTICAL DENSITY	TOBIAS DENSITOMETER	%	2.3		
WATER VAPOR TRANSMISSION RATE (WVTR)	ASTM F 1249 100°F (38°C), 90% RH	$\text{g}/100\text{in}^2/24\text{h}$ ($\text{g}/\text{m}^2/24\text{h}$)	0.02 (0.31)		
OXYGEN TRANSMISSION RATE (OTR)	ASTM D 3985 72°F (22°C), 0% RH	$\text{cc}/100\text{in}^2/24\text{h}$ ($\text{cc}/\text{m}^2/24\text{h}$)	4 (62)		

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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.