



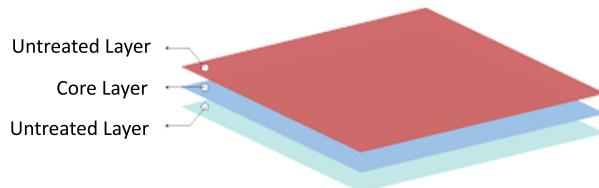
# TECHNICAL DATA SHEET

BOPET FILM  
Insulation Grade  
APB-EG

## Key Features

- Excellent Machinability
- High Thermal Stability
- Low Shrinkage under Heat Stress
- Superior Dimensional Stability & Mechanical Strength

Is a high-performance transparent BOPET film with both side untreated engineered specifically for electrical insulation applications



## Application

Electrical Applications  
Insulation Tapes  
Cable Wraps

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	23	36
DEVIATION OF AVG. FILM THICKNESS			%	±1.5	±1.5
FILM DENSITY		D-1505	gm/cc	1.4	1.4
GRAMMAGE		Internal	gm/m <sup>2</sup>	32.2	50.4
YIELD		Internal	m <sup>2</sup> /kg	31.00	19.80
TREATMENT LEVEL		D-2578	dyne/cm	42	42
COEFF OF FRICTION	DYNAMIC	D-1894	-	0.5 ± 0.02	0.5 ± 0.02
HAZE		D-1003	%	4.5	5.5
GLOSS (NOVA GLOSS)		D-1003	%	110	110
TENSILE STRENGTH AT BREAK	MD*	D-882	Kg/cm <sup>2</sup>	2,000	2,000
	TD*			2,400	2,400
	MD*		(Psi)	28,400	28,400
	TD*			34,100	34,100
ELONGATION AT BREAK	MD*	D-882	%	130	130
	TD*			100	100
HEAT SHRINKAGE (AT 150°C AND 30MIN)	MD*	D-1204	%	2.5	2.5
	TD*			1.1	1.1
BREAKDOWN VOLTAGE		D-149	KV	5.5	7.5
VOLUME RESISTIVITY		D-256	Ω cm	10 <sup>16</sup>	10 <sup>16</sup>
W.V.T.R (38°C & 90% RH)		F-1249	gm/m <sup>2</sup> /day	22	15
			(gm/100in <sup>2</sup> /day)	1.4	1.0
O.T.R (23°C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	70	50
			(cc/100in <sup>2</sup> /day)	4.5	3.2

\*MD = Machine Direction \*TD = Transverse Direction

## Reel Packing Format

Core Size	Outer Reel Dia
3" (76 mm)	< 550 mm
6" (152 mm)	< 650 mm

Min Reel Size	Max Reel Size
400 mm	2200 mm

## Storage

It is recommended to store the film below 30°C in order to avoid deterioration of film properties. It is advisable to use the material on FIFO basis.

## Food Contact

Complies with FDA and EC regulations. MSDS are available on request.

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