



# PETLAIN

## BT 1010 E

### Description

PETLAIN BT 1010 E is a transparent, biaxially oriented polyester (BOPET) film, non heat sealable, non treated.

It is designed specifically for the cable bundling applications at where high tensile strength, high thermal stability and excellent breakdown voltage properties are needed.

### Properties

- Outstanding mechanical and dielectric strength
- Very high breakdown voltage
- Excellent chemical resistance
- Good dimensional stability
- Excellent handling characteristics
- High thermal stability
- Low thermal conductivity
- The film shelf life is 12 months

## Technical Features

PROPERTIES	TEST METHOD	UNITS	BT 1010 E							
THICKNESS	ASTM F 2251	micron	12	15	19	23	30	36	50	
		Gauge	48	60	76	92	120	144	200	
YIELD	ASTM D 4321	m <sup>2</sup> /kg	59,5	47,6	37,6	31,1	23,8	19,8	14,3	
		in <sup>2</sup> /Lbs	41.800	33.500	26.400	21.800	16.700	13.900	10.000	
UNIT WEIGHT	ASTM D 4321	g/m <sup>2</sup>	16,8	21,0	26,6	32,2	42,0	50,5	69,9	
HAZE	ASTM D 1003	%	2,5				3,0		3,5	
GLOSS (45 °)	ASTM D 2457	%	125							
BREAKDOWN VOLTAGE	ASTM D 149	kV	4	4,5	5	6	7	8	10,5	
TENSILE STRENGTH AT BREAK	ASTM D 882	MD	N/mm <sup>2</sup>	240					200	
			lb/in <sup>2</sup>	34.800					29.000	
		TD	N/mm <sup>2</sup>	260					260	
			lb/in <sup>2</sup>	37.700					37.700	
ELONGATION AT BREAK	ASTM D 882	MD	%	140					180	
		TD		110					120	
THERMAL SHRINKAGE (150 °C, 30 min, air)	ASTM D 1204	MD	%	2					1	
		TD		0,5					0,5	
COEFFICIENT OF FRICTION	ASTM D 1894	Film/Film Dynamic	0,40							
SURFACE TENSION	ASTM D 2578	Dyne/cm	Treated Side	-						
			Other Side	-						

Product Identification (Decision 97/129/EC): PET1

### Regulatory Status

Our product complies with the applicable EC legislation on packaging involving direct contact with foods except metallized films. Full details are given on the Regulatory Compliance Certificate and can be found on our web site.

The information contained in this data sheet is true and accurate according to current state of our knowledge and intended to give general information on our products and their applications. Above values are to be considered as guidelines and not as product specifications. Since the actual conditions of use are beyond our control, users are advised to make their own tests at their specific conditions of laboratory and/or actual use. We suggest our customers to determine final suitability for their specific end uses.

Also be advised that information on this data sheet shall not be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing, pending or future patents.

For related spec sheet with tolerance values, please contact our sales departments

STANDARD ROLL DIMENSIONS			
CORE INNER DIAMETER (ID)	CORE OUTER DIAMETER (OD)	LENGTH TOLERANCE	WIDTH TOLERANCE
76 mm (3 in) & 152 mm (6 in)	530 mm & 790 mm *	± % 10 for all OD's	- 0 & + 4 mm

\* 790 mm OD is available for BOPET films above 400 mm width