

**POLYESLINE S.L.U.**

Polígono Industrial "Els Mollons". C/ Tapissers, 4 – 46970 Alaquas, Valencia –Spain.

Tel: 0034 96 006 65 10 Mail: comercial@polyesline.com

Web site: [www.polyesline.com](http://www.polyesline.com)

POLYES-FILM (B-21405)

TECHNICAL SPECIFICATION SHEET

**DESCRIPTION:** B-21405 grade of polyester film is a hazy and both side untreated bi-axially oriented polyester film. Film is thermally stable.

**APPLICATIONS:**

- For demoulding
- Flexible packaging applications
- Electrical applications (wire and cable insulation)
- FRP / GRP applications
- General purpose use and other industrial applications

**SALIENT FEATURES:**

- Excellent Machinability
- Excellent Mechanical and thermal Properties

**TECHNICAL DATA**

PROPERTIES		TEST METHOD	UNIT	B- 21405		
<b>PHYSICAL</b>						
Thickness		ASTM D 374	Micron (Gauge)	19 (76)	23 (92)	25 (100)
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	37.5 (26400)	31 (21800)	28.5 (20000)
<b>OPTICAL</b>						
Haze		ASTM D 1003	%	4 ~ 5	4 ~ 5	4 ~ 5
Total Luminous Transmission		ASTM D 1003	%	88	88	88
<b>MECHANICAL</b>						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	2000 (28500)	2000 (28500)
	TD		Kg/cm <sup>2</sup> (psi)	1900 (27000)	1900 (27000)	1900 (27000)
Elongation (Min)	MD	ASTM D 882	%	90	90	90
	TD		%	90	90	90
Coefficient of friction (Side-A / B) (Max)	St	ASTM D 1894	–	0.50	0.50	0.50
	Dy		–	0.45	0.45	0.45
<b>THERMAL</b>						
Shrinkage (150°C / 30 Min) (Max)	MD	ASTM D 1204	%	2.0	2.0	2.0
	TD		%	0.0	0.0	0.0
Shrinkage (190°C / 20 Min) (Max)	MD	ASTM D 1204	%	4.5	4.5	4.5
	TD		%	0.0	0.0	0.0
<b>SURFACE</b>						
Wetting tension (Min)		ASTM D 2578	dyne/cm	44	44	44
<b>ELECTRICAL</b>						
Break Down Voltage		ASTM D-149	KV	4.5	6.0	6.0
Volume Resistivity		ASTM D-256	Ohm cm	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. POLYESLINE S.L.U. suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.



**POLYESLINE S.L.U.**

Polígono Industrial "Els Mollons". C/ Tapissers, 4 – 46970 Alaquas, Valencia –Spain.  
 Tel: 0034 96 006 65 10 Mail: comercial@polyesline.com  
 Web site: [www.polyesline.com](http://www.polyesline.com)

**POLYES-FILM (B-21405)**

**TECHNICAL SPECIFICATION**

**DESCRIPTION:** B-21405 grade of polyester film is a hazy and both side untreated bi-axially oriented polyester film. Film is thermally stable.

**APPLICATIONS:**

- For demoulding
- Flexible packaging applications
- Electrical applications (wire and cable insulation)
- FRP / GRP applications
- General purpose use and other industrial applications



**SALIENT FEATURES:**

- Excellent Machinability
- Excellent Mechanical and thermal Properties

**TECHNICAL DATA**

PROPERTIES		TEST METHOD	UNIT	B- 21405		
<b>PHYSICAL</b>						
Thickness		ASTM D 374	Micron (Gauge)	30 (120)	36 (144)	50 (200)
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	23.8 (16700)	19.8 (13900)	14 (10000)
<b>OPTICAL</b>						
Haze		ASTM D 1003	%	4 ~ 5	5 ~ 6	6 ~ 7
Total Luminous Transmission		ASTM D 1003	%	88	88	88
<b>MECHANICAL</b>						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	1900 (27000)	1900 (27000)
	TD		Kg/cm <sup>2</sup> (psi)	1900 (27000)	1800 (25600)	1800 (25600)
Elongation (Min)	MD	ASTM D 882	%	90	100	100
	TD		%	90	100	100
Coefficient of friction (Side-A / B) (Max)	St	ASTM D 1894	–	0.50	0.50	0.50
	Dy		–	0.45	0.45	0.45
<b>THERMAL</b>						
Shrinkage (150°C / 30 Min) (Max)	MD	ASTM D 1204	%	1.8	1.6	1.6
	TD		%	0.0	0.0	0.0
Shrinkage (190°C / 20 Min) (Max)	MD	ASTM D 1204	%	4.5	4.5	4.5
	TD		%	0.0	0.0	0.0
<b>SURFACE</b>						
Wetting tension (Min)		ASTM D 2578	dyne/cm	44	44	44
<b>ELECTRICAL</b>						
Break Down Voltage		ASTM D-149	KV	7.0	7.5	9.5
Volume Resistivity		ASTM D-256	Ohm cm	10 <sup>^16</sup>	10 <sup>^16</sup>	10 <sup>^16</sup>

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. POLYESLINE S.L.U. suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.