



POLYESLINE S.L.

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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		
PHYSICAL						
Thickness		ASTM D 374	Micron (Gauge)	19 (76)	23 (92)	25 (100)
Yield		JPFTM	m ² /kg (in ² /lb)	37.5 (26400)	31 (21800)	28.5 (20000)
OPTICAL						
Haze		ASTM D 1003	%	4 ~ 5	4 ~ 5	4 ~ 5
Total Luminous Transmission		ASTM D 1003	%	88	88	88
MECHANICAL						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm ² (psi)	2000 (28500)	2000 (28500)	2000 (28500)
	TD		Kg/cm ² (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
THERMAL						
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
SURFACE						
Wetting tension (Min)		ASTM D 2578	dyne/cm	44	44	44
ELECTRICAL						
Break Down Voltage		ASTM D-149	KV	4.5	6.0	6.0
Volume Resistivity		ASTM D-256	Ohm cm	10 ¹⁶	10 ¹⁶	10 ¹⁶

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. 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.



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TECHNICAL DATA

PROPERTIES		TEST METHOD	UNIT	B- 21405		
PHYSICAL						
Thickness		ASTM D 374	Micron (Gauge)	30 (120)	36 (144)	50 (200)
Yield		JPFTM	m ² /kg (in ² /lb)	23.8 (16700)	19.8 (13900)	14 (10000)
OPTICAL						
Haze		ASTM D 1003	%	4 ~ 5	5 ~ 6	6 ~ 7
Total Luminous Transmission		ASTM D 1003	%	88	88	88
MECHANICAL						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm ² (psi)	2000 (28500)	1900 (27000)	1900 (27000)
	TD		Kg/cm ² (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
THERMAL						
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
SURFACE						
Wetting tension (Min)		ASTM D 2578	dyne/cm	44	44	44
ELECTRICAL						
Break Down Voltage		ASTM D-149	KV	7.0	7.5	9.5
Volume Resistivity		ASTM D-256	Ohm cm	10 ¹⁶	10 ¹⁶	10 ¹⁶

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