



POLYESLINE S.L.U.

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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 the technical data sheets of our products are typical performance data and are believed to be accurate. These are given in good faith, but it is up to the client to verify the suitability for his own particular purpose. POLYESLINE S.L.U. suggests to the customer to confirm these values and the compatibility of the product before use. POLYESLINE S.L.U. does not offer any guarantee or accept any responsibility for the suitability of the product for a particular use. For this reason, POLYESLINE S.L.U. will only be liable in the event that the material is defective, and only after its manufacturer confirms and ratifies it; and will never be responsible for the damages caused by its use, nor will it be responsible for them, nor for cost of the transport for return or replacement, if applicable.



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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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