

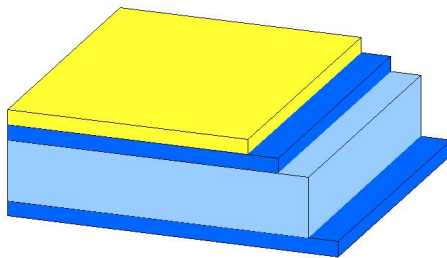






Polyfilm Polyplex Polyester Films

Type: SI42 (isotropic and chemically treated) 12my

Polyfilm SI42 is an isotropic Polyester film that is one side chemically treated (acrylic) for high bonding with various inks. It is designed in critical applications which need more dimensional uniformity of physical properties.

Composition



-  chemically treated
-  standard surface
-  core
-  standard surface

Typical Properties

Property	Units	Nominal	Method	Conditions
Mechanical Properties				
Nominal thickness	μ	12.0	PTL Method	
Elongation at break	MD %	120	ASTM D-882	
	TD %	110		
Tensile strength	MD kg/cm ²	2300	ASTM D-882	
	TD kg/cm ²	2400		
Ratio Elongation for +/-45° diagonals		0.70-1.40		across the width

Property	Units		Nominal	Method	Conditions
Thermal Properties					
Heat shrinkage	MD	%	2.0	ASTM D-1204	150 Deg. C/30 min.
	TD	%	0.0		
Surface Properties					
Co-efficient of friction dynamic			0.42	ASTM D-1894	
Co-efficient of friction static			0.48	ASTM D-1894	
Surface tension plain side	dyne/cm		42	ASTM D-2578	
Surface tension treated side	dyne/cm		42	ASTM D-2578	
Physical/Chemical Properties					
Density	g/cm ³		1.4		
Optical Properties					
Haze	%		2.5	ASTM D-1003	
Gloss at 60 Deg.	%		160	ASTM D-2457-97	
Light transmission	%		90	ASTM D-1003	
Barrier Properties					
O2 Permeability	cm ³ /m ² day		130	ASTM D-3985-95	23 Deg. 0% RH
WVTR	g/m ² day		40	ISO 15106-I: 03	23 Deg. 90% RH

Standard Roll Presentation

Thickness	Core	Length	outside diameter
μ	mm	m	mm
12	76	6000	325
12	76	12000	450
12	152	18000	570
12	152	24000	650
12	152	36000	785

Disclaimer

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