

Specification

Type: BOPET 12 μ / corona and chemical treatment

Properties	Test method	Unit	Typical Value	min	max
Thickness	ASTM D 374	μm	12	11,4	12,6
Unit weight	DIN EN ISO2286-2	g/m^2	16,8	16	17,6
Yield	ASTM D 4321	m^2/kg	59,52		
Density	ASTM D 1505	gm/cc	1,4		
Haze	ASTM D 1003	%	3,0		4,5

Tensile strength at break	ASTM D 882	MD	Kg/cm^2	2000	1900	
		TD	Kg/cm^2	2100	2000	
Elongation at break	ASTM D 882	MD	%	120	90	
		TD	%	100	90	
Co-efficient of friction	ASTM D 1894	St	-	0,50		0,55
		Dy	-	0,45		0,50
Shrinkage (150°C; 30 min)	ASTM D 1204	MD	%	2,0		3,0
		TD	%	0,6		1,0

Surface Tension/Treatment						
CORONA treatment	ASTM D 2578		Dynes/cm	54	52	
CHEMICAL treatment	ASTM D 2578		Dynes/cm	50	48	

W.V.T.R. (38°C & 90% RH)	ASTM F 1249		$\text{gm/m}^2/\text{day}$	40		45
O.T.R. (23°C & 0% RH)	ASTM D 3985		$\text{cc/m}^2/\text{day}$	100		130

Winding direction reel Corona treatment to Outside and possible chemical treatment to Inside

Application Hot fil, Sterilization & Retort application/ Printing, lamination & metallization

Pallet type Only plastic pallet is acceptable (with plastic End Fitments and plastic base pallet)

Product has to comply: Regulations: (EC) No 1935/2004; (EC) No 2023/2006; (EC) No 1907/2006; (EU) No 10/2011 Directives: 94/62/EC; 2005/84/EC; 2007/68/EC
FDA, CFR Title 21 regulations to be used in plastic articles coming into contact with food Chinese Hygienic Standard GB 9685-2008
California Proposition 65

Specification

Type: BOPET 23 μ / corona and chemical treatment

Properties	Test method	Unit	Typical Value	min	max
Thickness	ASTM D 374	μm	23	21,9	24,2
Unit weight	DIN EN ISO2286-2	g/m^2	32,2	30,6	33,8
Yield	ASTM D 4321	m^2/kg	31,05		
Density	ASTM D 1505	gm/cc	1,4		
Haze	ASTM D 1003	%	4,0		4,5

Tensile strength at break	ASTM D 882	MD	Kg/cm^2	2000	1900	
		TD	Kg/cm^2	2100	2000	
Elongation at break	ASTM D 882	MD	%	120	100	
		TD	%	100	90	
Co-efficient of friction	ASTM D 1894	St	-	0,50	0,30	0,55
		Dy	-	0,45	0,25	0,50
Shrinkage (150°C; 30 min)	ASTM D 1204	MD	%	1,8		3,0
		TD	%	0,6		1,0

Surface Tension/Treatment						
CORONA treatment	ASTM D 2578		Dynes/cm	54	52	
CHEMICAL treatment	ASTM D 2578		Dynes/cm	50	48	

W.V.T.R. (38°C & 90% RH)	ASTM F 1249		$\text{gm/m}^2/\text{day}$	30		35
O.T.R. (23°C & 0% RH)	ASTM D 3985		$\text{cc/m}^2/\text{day}$	75		800

Winding direction reel Corona treatment to Outside and possible chemical treatment to Inside

Application Hot fil, Sterilization & Retort application/ Printing, lamination & metallization

Pallet type Only plastic pallet is acceptable (with plastic End Fitments and plastic base Pallet)

Product has to comply: Regulations: (EC) No 1935/2004; (EC) No 2023/2006; (EC) No 1907/2006; (EU) No 10/2011 Directives: 94/62/EC; 2005/84/EC; 2007/68/EC
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Specification

Type: BOPET 36μ / corona and chemical treatment

Properties	Test method	Unit	Typical Value	min	max
Thickness	ASTM D 374	μm	36	34,2	37,8
Unit weight	DIN EN ISO2286-2	g/m ²	50,4	47,9	52,9
Yield	ASTM D 4321	m ² /kg	19,84		
Density	ASTM D 1505	gm/cc	1,4		
Haze	ASTM D 1003	%	5,0		5,5

Tensile strength at break	ASTM D 882	MD	Kg/cm ²	1900	1750	
		TD	Kg/cm ²	2000	1950	
Elongation at break	ASTM D 882	MD	%	125	105	
		TD	%	100	90	
Co-efficient of friction	ASTM D 1894	St	-	0,50	0,30	0,55
		Dy	-	0,45	0,25	0,50
Shrinkage (150°C; 30 min)	ASTM D 1204	MD	%	1,8		3,0
		TD	%	0,6		1,0

Surface Tension/Treatment						
CORONA treatment	ASTM D 2578		Dynes/cm	54	52	
CHEMICAL treatment	ASTM D 2578		Dynes/cm	50	48	

W.V.T.R. (38°C & 90% RH)	ASTM F 1249		gm/m ² /day	20		25
O.T.R. (23°C & 0% RH)	ASTM D 3985		cc/m ² /day	60		70

Winding direction reel Corona treatment to Outside and possible chemical treatment to Inside

Application Hot fil, Sterilization & Retort application/ Printing, lamination & metallization

Pallet type Only plastic pallet is acceptable (with plastic End Fitments and plastic base pallet)

Product has to comply: Regulations: (EC) No 1935/2004; (EC) No 2023/2006; (EC) No 1907/2006; (EU) No 10/2011 Directives: 94/62/EC; 2005/84/EC; 2007/68/EC
FDA, CFR Title 21 regulations to be used in plastic articles coming into contact with food Chinese Hygienic Standard GB 9685-2008
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