

## PET Extrusion Lines

PET line has been equipped with one 75 dia main and one 45 dia co-extruders. It is a Battenfeld machine with a max. capacity about 500 kg/h as from 300 microns to 1500 microns. Surface options are; mat/gloss, glass/gloss and also transparent & colored alternatives are available. Maximum width is 1400 mm.

At PET sheet line a very accurate Maxon Sheet Sizing Unit has been engaged as well. In addition to this, a 1 ton and 1 mm diameter capacity roll winder and 8 pieces slitter are staying at stand-alone form to wind and slit the sheets for packaging industry. This machinery has been fed from full automatic crystalizer and dry air drier from Colortronic-Germany. A lot of alternative polymer sheets with antiblock-antislip agent, UV stabilizer, optical brightener additives possibilities are available. PET line has both sides cold lamination units for protective film application and also has hot lamination for different sheet extrusion alternatives. For colour options please contact with our sales executives.

### Features:

- Good dimensional strength
- High impact strength
- Good heat resistance
- Good toughness even at low temperatures
- Good creep resistance
- Machinable
- Low friction and high abrasion resistance
- High dimensional stability
- Good electrical insulating properties
- High tracking resistance
- Low water absorption
- Physiologically acceptable
- Suitable for thermoforming
- Resistant to water at room temperature, dilute acids, neutral acidic salts, alcohol, ethers, oils, fats, perchlorated, aromatic and aliphatic hydrocarbons
- Resistant to stress cracking
- Resistant to weathering and hot air
- Burns with black smoke with a sweet aromatic smell

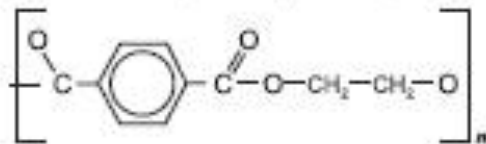


### Operating Processes



### Composition:

PET is an abbreviation of Polyethylene Terephthalate. Chemical composition is  $(C_{10}H_8O_4)_n$ .



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BIC: PIRBGBSF  
IBAN: BG82 PIRB 8083 1604 3688 38



## Test Reports

Physical and Chemical properties :

Test	Dimension	Standard	Value
Density	g/cm <sup>3</sup>	DIN EN ISO 1183	1.34
Modulus of elasticity (tensile)	Mpa	DIN EN ISO 527-3, 18/50, 1 mm/min @ 5 Mpa, in direction of production	2440
Tensile stress of yield	Mpa	DIN EN ISO 527-3, 18/50, 1 mm/min @ 5 Mpa, in direction of production	41.5
Elongation of yield	%	DIN EN ISO 527-3, 18/50, 1 mm/min @ 5 Mpa, in direction of production	2.3
Breaking strength (20 °C)	Mpa	DIN EN ISO 527-3, 18/50 in direction of production	31.8
Elongation of break	%	DIN EN ISO 527-3, 18/50 in direction of production	15.3
Modulus of elasticity (flexion)	Mpa	DIN EN ISO 178, 2 mm/min @ 1.5%, then 10 mm/min	2250
Flexural strength at 3.5 % flexion	Mpa	DIN EN ISO 178, 2 mm/min @ 1.5%, then 10 mm/min	41.5
Flexural strength , maximum	Mpa	DIN EN ISO 178, 2 mm/min @ 1.5%, then 10 mm/min	44.8
Impact strength at +23 °C	KJ/m <sup>2</sup>	DIN EN ISO 179-1/1eU, in direction of production, support distance 62 mm, 4 Joule Hammer	89.7
Impact strength notched at +23 °C	KJ/m <sup>2</sup>	DIN EN ISO 179-1/1eU, in direction of production, support distance 62 mm, 0.54 Joule Hammer and 1 Joule hammer (ABS)	21.6
Vicat softening point	KJ/m <sup>2</sup>	DIN EN ISO 306, 50 K/h, load 50 N, procedure B	95
Water vapor permeability	g/(m <sup>2</sup> d)	DIN EN ISO 15106-3 at 23 °C, 85% to 95% relative humidity	3.32
Glass transition temperature	°C	DIN EN ISO 11357-2 at 20 K/min	1.1 and 107.2
Melting temperature (Peak)	°C	DIN EN ISO 11357-3 at 20 K/min	... 2]
Crystallization temperature	°C	DIN EN ISO 11357-3 at 20 K/min	... 2]
Shore D hardness	-	DIN 53505	80
Linear coefficient of thermal expansion (23-80 °C)	10 <sup>-5</sup> 1/K	ISO 11359-2, procedure B, 5 K/min in direction of production	9.7

## Fire Rating

Standard	Rating	Thickness	Colour
DIN EN ISO 11925-2	B-S2, d0	1 mm	Transparent
DIN EN 13823			

## PET Sheet

Thickness	Sheet Size			Colour	Surface	
	1000*1400	1250*2050	1400*3000		Mat	Gloss
0,30	X	X	X	Transparent and White	X	X
0,40	X	X	X		X	X
0,50	X	X	X		X	X
0,60	X	X	X		X	X
0,70	X	X	X		X	X
1,00	X	X	X		X	X
1,20	X	X	X		X	X
1,50	X	X	X		X	X

The information and recommendations in this brochure are accurate and reliable to the best

## Application Areas :

Signt  
Food Packaging  
Vacuum forming  
Printing  
Stationary  
POS stands  
White Goods Equipments  
Construction Equipments



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