

Properties of APET ST4005.00.000 generally

Application	<u>Food and medical packaging</u>	
	- Biocompatible	- Recycling possible
	- Good barrier characteristics	- Ecologically desposable
	- Can be gamma sterilized	- Tests: Natec NA 95 9213 - 15/95 (4)
Application-recommendations	<u>Thermoforming</u>	
	- Suitable for thermoforming (vacuum machines possible, high pressure air forming)	
	<u>Bonding</u>	
	- Solvents	impossible
	- Hotmelt	APET with APET and PETG with APET
	<u>Sealing</u>	
	- RF sealing	APET with APET
	- Ultrasonic	APET with APET
	<u>Printing:</u>	
	All printing methods possible, ink grades are to optimized UV inks recommended	

Dimensions	Thickness rolls: 0,15 mm to 1,20 mm Tolerance: +/- 5 %
	Thickness sheets: 0.15 mm to 0,80 mm
	Width: rolls max. 1050 mm; sheets max. 8(Tolerance: +/- 1,2 mm
	Coloring as desired
	Sheets standard cut 1200x800mm Tolerance: +/- 30 mm
	precision cut 1200x800mm Tolerance: +/- 1 mm

Physical properties

(measured on 250 my film)

Properties	Test-method	Value	Units
Specific Gravity	DIN 53 479	1335	kg/m3
Tensile Stress at Yield (20°C)	DIN 53 455	60	N/mm2
Breaking strenght (20°C)	DIN 53 455	70	N/mm2
Elongation at Break (20°C)	DIN 53 455	290	%
Modulus of elasticity (MD)	DIN 53 457	2060	N/mm2
Water vapor permeability		6	g/(24h*m ² *bar)
Gas permeability CO ₂		28	cm ³ /(24h*m ² *bar)
O ₂		5	cm ³ /(24h*m ² *bar)
N ₂		2	cm ³ /(24h*m ² *bar)
Glass transition temperature (10°C/min)	DSC	73	ppm/K
Glass transition temperature (5°C/min)	TMA	63	°C
Melting temperature (Peak) (10°C/min)	DSC	250	°C
Crystallization temperature (10°C/min)	DSC	140	°C
Surface Resistivity	DIN 53 482	> 10 ¹³	Ohm

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