



## Properties for APET 4020.00.000 generally

<b>Application</b>	<u>Food and medical packaging</u>	
	- Biocompatible	- Good barrier characteristics
	- Ecologically desposable	- Can be gamma sterilized
	- Tests: Natec NA 95 9213 - 15/95 (4)	- Recycling possible
<b>Application-recommendations</b>	<u>Thermoforming</u>	
	- Suitable for thermoforming; vacuum machines in combination with high pressure air forming needed	
	<u>Bonding</u>	
	- Hotmelt	APET with APET and PETG with APET
	- Solvents	not possible
	<u>Sealing</u>	
	- Heat sealing	APET with APET; APET with PETG
	- Ultrasonic sealing	APET with APET; APET with PETG
	- High-frequency welding	APET with APET; APET with PETG
	<u>Printing:</u>	
	- All printing methods possible, ink grades are to optimize (UV inks recommended)	
<b>Dimensions</b>	Thickness: 0,15 mm to 1,20 mm	Tolerance: +/- 5 %
	Width: max.: 950 mm (up to 0,25 mm max 850 mm)	Tolerance: +/- 1,0 mm
	Coloring as desired	
	Core-diameter:	76 mm, 152 mm
	Reels-diameter:	max. 900 mm

### Physical properties (measured on 250 my film)

Properties	Test-method	Value	Units
Specific Gravity	DIN 53 479	1335	kg/m <sup>3</sup>
Tensile Stress at Yield (20°C)	DIN 53 455	60	N/mm <sup>2</sup>
Breaking strenght (20°C)	DIN 53 455	65	N/mm <sup>2</sup>
Elongation at Break (20°C)	DIN 53 455	275	%
Modulus of elasticity (MD)	DIN 53 457	2060	N/mm <sup>2</sup>
Water vapor permeability		6	g/(24h*m <sup>2</sup> *bar)
Gas permeability CO <sub>2</sub>		28	cm <sup>3</sup> /(24h*m <sup>2</sup> *bar)
O <sub>2</sub>		5.1	cm <sup>3</sup> /(24h*m <sup>2</sup> *bar)
N <sub>2</sub>		1.5	cm <sup>3</sup> /(24h*m <sup>2</sup> *bar)
Glass transition temperature (10°C/min)	DSC	78	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	137	°C
Surface Resistivity	DIN 53 482	> 10 <sup>13</sup>	Ohm

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