

POLYESTER A-PET

MATERIAL SPECIFICATIONS

Transparent or coloured amorphous polyester (A-PET) film that can be manufactured in 0.11 ÷ 1.5 mm thicknesses and up to 1450-mm widths. Typical applications are blisters with a high degree of transparency and gloss or packages for food and pharmaceutical products. It can be used on existing thermoforming plants. If heated, it crystallises at a temperature higher than 120°C. It is suitable for food applications thanks to a good oxygen and gas barrier and an excellent resistance to fats.

It is excellent as a base material for rotogravure, offset silkscreen and flexo printing (see HIPRINT MO59)

Technical specifications (250 micron film)	Trial method	Unit of measurement	Value
Specific weight	ASTM D 1505	G/cm ³	1.33
Gloss at 45°	ASTM D 2457		1.08
Transparency	ASTM D 1746	%	87
Elastic modulus	ASTM D 882	MPa	2700
Resiliency:			
• at 23°C	ASTM D 1709	g	405
• at -29°C			175
Moisture permeability	ASTM F 372	g/m ² *24h	6.0
Oxygen permeability	ASTM D3985	cm ³ *mm/m ² *24h*atm	5.1
CO ₂ permeability	ASTM D1434	cm ³ *mm/m ² *24h*atm	28
Thermoforming temperature		°C	110
Thermoformed trays softening temperature		°C	70
Minimum utilisation temperature of thermoformed trays		°C	-40
TCS Critical surface tension (only for print application)		Dyne/cm	Face up 38 Face down 34 (In case of corona treatment 42 on the treated side)
Forming:			GOOD FAIR
• thin film (<0.6 mm)			
• heavy film (others)			
Surface resistivity (coating on demand)		ohm	10E9-10E12
Sterilization:			YES YES NO
• ETO			
• Gamma rays			
• Steam			
Thicknesses		mm	0.11 ÷ 1.5
Widths		mm	180-1450
Tolerances:			

• On thicknesses:			
1. <0.120 thick		%	±10
2. 0.120<Thick<0.200			±8
3. >0.200 thick			±5
• On width		mm	±1

TECHNICAL SHEET



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