

PETPLUS™



PETPLUS™ is an amorphous co-polyester sheet and is as easy to thermoform as PETG. No pre drying is required and cycle times are shorter than for PMMA. Mechanical properties are similar to those of A-PET sheet, however the formability is much higher. PETPLUS™ has no inherent UV protection and is for indoor applications. Outdoor performance can be compared with those of PETG. PETPLUS™ is produced from authorised materials suitable for the production of components that may come in contact with food according to the European Directive 92/93/EEC. Chemical resistance is equally good as for PETG. Chemicals that disqualify PETG will also disqualify PETPLUS™. The general chemical resistance is better for PETPLUS™ than for PMMA.

Qualities:

- Very easy thermoforming
- Mechanical properties like A-PET
- Higher impact strength than PMMA
- High clarity
- No pre drying required
- Compatible with foodstuffs
- High formability, bends without whitening.

Applications:

Poster protection, signs, displays, formed parts etc.

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PETPLUS™ Properties

Property	Value	Unit	Standard
Water absorption	0,13	%	ASTM D 570
Mechanical Properties			
Tensile Strength at Yield (Break)	60 (27)	MPa	ASTM D368
Tensile Elongation at Break	50	%	ASTM D368
Young's Modulus	2850	MPa	ASTM D368
Flexural Modulus	2600	MPa	ASTM D790
Izod Impact, notched 3 mm +23°C	40	J/m	ASTM D 256
Izod Impact, notched 3 mm -30°C	36	J/m	ASTM D 256
Izod Impact, un notched 3 mm +23°C	NB	J/m	ASTM D 256
Thermal Properties			
Vicat A	78	°C	ASTM D1525
Vicat B	69	°C	
HDT A 1,80 Mpa	64	°C	ASTM D648
Linear Coefficient of Thermal Expansion	5.9*10-5	K-1	ASTM D696
Physical Properties			
Density	1.29	g/cm3	ASTM D792
Refractive Index, 20°C	1.57		ISO 489
Fire Properties b)			
Flammability 0,8 mm	HB	Class	UL 94
Oxygen Index	26	%	ASTM D2863

The above information is based upon experience and given in good faith. Due to many factors which are outside our knowledge and control, no warranty is given or is to be implied with respect to such information.

Arla sheets are produced from resins that are certified according to UL 94. Furthermore, several products have been tested according to DIN 4102 (class B1 and B2), DIN 5510 (class S3, SR1 and SR 2, ST1 and ST2), BS 476 part 7 (class 1Y), NF P 92-501 (M2), CSE/75/A (class 1), CSE/RF/3/77 (class 1), UNE 23.727-90 (class M.4). A list of products that have been tested and their respective classification is presented on www.arlaplast.se. If information regarding classifications according to other standards is needed, it is often possible to retrieve information from our raw material suppliers. Please contact our technical support.