

Technical datasheet

A-PET (amorphous polyethylenterephthalat)

Example of application
<ul style="list-style-type: none"> › machine guard › Displays suitable for outdoor use › Cold storage and impregnation

Advantage	Disadvantages
<ul style="list-style-type: none"> › Brilliant surface › Easily vacuum formed, does not require pre-drying › Exceptional low-temperature performance › Very good chemical resistance › Very high impact resistance › FDA-conform › Excellent weather resistance 	<ul style="list-style-type: none"> › Temperature resistant up to max. 65 °C › Susceptibility to scratching › No notch toughness

Basic information	Specification
Format	Sheets: 0.8 mm up to 6 mm available in 2.05 m x 3.05 m 0.8 mm up to 3 mm available in 1.25 m x 2.05 m 3.0 mm up to 5 mm available in 1.25 m x 2.50 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.33	g/cm ³	DIN EN ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	> 55	MPA	DIN EN ISO 527
Elongation at break	54	%	DIN EN ISO 527
E-module	2.500	MPA	DIN EN ISO 178
Notch toughness	fracture free	kJ/m ²	DIN EN ISO 179
Rockwellhardness	50	Shore D	DIN EN ISO 868

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	n.sp.	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.5	K ⁻¹ ·10 ⁻⁴	DIN 53752
	1.00	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	65	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN 53482
Outer surface coefficient	n.sp.	Ω	DIN 53482
Puncture resistance	n.sp.		DIN 53481

Legend
n.sp.= not specified

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