

Product data sheet. November 2025

# **Axpet®**

# Solid polyester sheet



## Your benefits:

- good impact strength
- good fire rating
- suitable for food-contact applications

Solid **Axpet**<sup>®</sup> sheets are made from thermoplastic polyester. They offer high impact strength and a good fire rating. Axpet<sup>®</sup> is resistant to chemicals and fully recyclable.

**Axpet® clear 099** is a clear-transparent sheet with high light transmission and gloss. Axpet® clear 099 can be used for food-contact applications.

**Axpet®** white 130 is a translucent sheet offering good light diffusion combined with a pleasant white color.

**Axpet UV clear 2099** is a clear transparent sheet with UV protection on both sides to prevent visible yellowing.

#### **Applications:**

Ideal fields of indoor application for **Axpet®** are:

P.O.S. (displays, price tag holders, shelf partitions), poster glazing, poster boards (also backlit), direction signs, promotional symbols, food containers and trays, decorative inserts, flat machine guards.

The sheets can be machined and screen printed with ease. Owing to the crystallization properties of polyester, the sheet may turn white during thermoforming. Line-bent **Axpet®** sheets show a hinge effect and are ideal for cold folding. For outdoor applications it is recommended to use **Axpet® UV** sheets.

	Test Conditions	Typical values	Unit	Standard  ISO 1183-1 ISO 62-4 ISO 62-1 ISO 489	
PHYSICAL Density Moisture absorption Refractive index	after storage in standard climate 23 °C/50% RH after storage in water at 23 °C until saturation 20 °C	1.33 0.2 0.5 1.585	g/cm³ % %		
MECHANICAL Tensile stress at yield Elongation at yield Tensile strength Elongation at break Elastic modulus Limiting flexural stress Impact strength	Charpy, unnotched Charpy, notched Izod, notched	> 55 4 > 55 > 25 2,500 ca. 80 no break ca. 4 ca. 3	MPa % MPa % MPa MPa kJ/m² kJ/m²	ISO 527-2/1B/50 ISO 527-2/1B/50 ISO 527-2/1B/50 ISO 527-2/1B/50 ISO 527-2/1B/1 ISO 178 ISO 179/1fU ISO 179/1eA ISO 180/1A	
THERMAL Vicat softening temperature Thermal conductivity Coeff. of linear thermal expansion Heat deflection temperature under load	Method B: 0.45 MPa Method B: 0.45 MPa	75 0.25 0.05 63 70	°C W/m K mm/m K °C °C	ISO 306 DIN 52612 DIN 53752-A ISO 75-2 ISO 75-2	
ELECTRICAL Dielectric strength Volume resistivity Surface resistivity Dielectric constant Dissipation factor	at 10 <sup>3</sup> Hz at 10 <sup>6</sup> Hz at 10 <sup>3</sup> Hz at 10 <sup>6</sup> Hz	17 10 <sup>15</sup> 10 <sup>16</sup> 3.4 3.1 0.015	kV/mm Ohm·cm Ohm	IEC 60243-1 IEC 60093 IEC 60093 IEC 60250 IEC 60250 IEC 60250 IEC 60250	

The mechanical properties were measured on sheets of 4 mm thickness.



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Exolon Group S-Line, the standard product line, represents a range of certified quality products which offer the reliable solution for most applications.

#### **Light Transmission:**

Test method according to DIN EN ISO 13468. The stated thicknesses are not all available as standard. Please ask us for more information. The stated values are typical values only.

Light Transmission in %	0,8	1	1,5	2	3	4	5
Axpet® clear 099/ Axpet® UV clear 2099	90	89	89	88	87	86	85
Axpet® white 130		28	28	28	30		

**Available sizes: Axpet®** is available in thicknesses of 0.8-5 mm and in the following sizes; other sizes, colors and sheet thicknesses on request.

Colors: Sizes (standard):

## **Food compatibility**

Axpet® clear 099 can be used for food-contact applications

#### **Permanent Service Temperature:**

The maximum permanent service temperature without load is approx. 60°C.

## Fire Rating (\*):

Country	Standard	Rating	Thickness	Color
Europe	EN 13501-1	B-s1, d0	0.8 - 5 mm	clear 099
UK	BS 476 Part 7	Class 1Y	1.5 & 5 mm	clear 099

## Glow wire flammability index, IEC 60695-2-12, in °C (\*):

	0,8	1	1,5	2	2,5	3	4	5
Axpet® clear 099	960	960	960	960		960	960	
Axpet® white 130		960	960	960		960	96	

 $\label{eq:continuous} \mbox{(*) fire certificates are limited in time, always check if the mentioned certificate is still valid.}$ 



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