

Product data sheet, March 2023

## Axpet® GP rECOplus

# Solid polyester sheet with circular content



### Your benefits:

- contains 25% post-consumer recycled content
- good impact strength
- suitable for food-contact applications

Solid **Axpet® GP rECOplus2** sheets are made from thermoplastic polyester and contains 25% of post-consumer recycled content. By integrating post-consumer waste materials into the sheet, the material has a lower ecological footprint and improves sustainability.

**Axpet® GP rECOplus2** offers high impact strength and a good fire rating. It is resistant to chemicals and fully recyclable.

**Axpet® GP rECOplus2** clear 099 is a clear-transparent sheet with good light transmission and gloss. It can be used for food-contact applications.

#### **Applications:**

Ideal fields of indoor application for **Axpet® GP rECOplus2** 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® GP rECOplus2** sheets show a hinge effect and are ideal for cold folding.

	Test Conditions	Typical values	Unit	Standard
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 % %	ISO 1183-1 ISO 62-4 ISO 62-1 ISO 489
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.



## Axpet® GP rECOplus

# Solid polyester sheet with circular content



Exolon Group ECORANGE represents a line of products which attribute to improved sustainability by having a lower ecological footprint.

#### **Light Transmission:**

Test method according to DIN EN ISO 5036. 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	2	3
Axpet® GP rECOplus2 clear 099	86	85	81	76

**Available sizes: Axpet® GP rECOplus2** is available in thicknesses of 0.8-3 mm and in the following sizes; other sizes, colors and sheet thicknesses on request.

Colors:

Sizes (standard):

Axpet® GP rECOplus2 clear 099

3,050 x 2,050 mm

#### Food compatibility

Axpet® GP rECOplus2 clear 099 can be used for food-contact applications

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

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

### Sustainability

The Exolon Group is committed to sustainability and protecting the environment, and actively supports and promotes developments which reduce the environmental impact of its products. **Axpet® rECOplus** is a partially circular product: it contains 25% of post-consumer waste. This means that it contains 25% of polyester from products which have reached their end-of-life and are recycled back into this new material.



Exolon Group NV Wakkensesteenweg 47 8700 Tielt Belgium