

Universal Polythex Kunststoffe GmbH Friedrich-Ebert-Straße 15 52531 Übach-Palenberg

## TECHNICAL DATA SHEET

### POLYTHEX ECO PCR-PS

#### DESCRIPTION

POLYTHEX **ECO PCR-PS** is produced out of reprocessed plastic material made from domestic or commercial waste (post-consumer recycling material).

#### KEY FEATURES

- Product is good recyclable
- Economically friendly product

#### APPLICATIONS

- Point of Sale
- Displays
- Transit trays
- Backing sheets

#### PRODUCT AVAILABILITY:

Colour: grey/black, other colours on request  
 Surface: natural smooth and several embossing's  
 Thickness: 0,3 – 10 mm<sup>1</sup>  
 Width: 300 – 2500 mm<sup>1</sup>

	Test method	Unit	Values
Technical Properties			
Density <sup>2</sup>	ISO 1183	cm <sup>3</sup> /10 min	1,06
Charpy Impact Strength, 23° C	ISO 179/1eA	kJ/m <sup>2</sup>	>6,5
Charpy Notched Impact Strength, 23° C	ISO 179/1eU	kJ/m <sup>2</sup>	>38
Tensile strain at break, 23 °C - 50 mm/min	ISO 527-2 type 1A	%	>40
Tensile Modulus, 23 °C - 1mm/min	ISO 527-2 type 1A	MPa	>1800
Tensile stress at yield, 23 °C - 50 mm/min	ISO 527-2 type 1A	MPa	>18

<sup>1</sup> The dimension of the sheet is depending on embossing, colour, thickness, size of order – please ask our sales team

<sup>2</sup> The density is only a guide and depends on pigments and additives used

## TECHNICAL DATA SHEET - additional information

### POLYTHEX ECO PCR-PS

#### **Technical Properties**

The values given are guidelines and may vary due to the different compositions of the different SB types.

These are characteristic properties, that should not be interpreted as material specifications.

The mechanical values listed in this technical data sheet were based on extruded sheet of 4 mm thickness.

The information in this technical data sheet has been compiled with the greatest of care. However, a guarantee can be based on the diverse applications are not accepted.

#### **Storage and Drying**

The product should be thermoformed ideally directly after extrusion. If material is stored in humid conditions it is recommended to dry it before thermoforming. We recommend drying it at 80°C for appr. 2 hours, for each additional millimeter in thickness add an extra hour of drying.

#### **Chemical Resistance**

The chemical resistance is depends on different factors therefore we advise you to first test the material. If you have questions – ask our sales team.

#### **UV Resitance**

POLYTHEX ECO PCR-PS, when exposed to direct UV-light may discolour and become brittle in a matter of months. Black pigmented sheet will improve UV resistance. UV-Stabilizer can further improve the time of exposure.

If you have any further questions, please do not hesitate to contact us.

With best regards

#### **Universal Polythex Kunststoffe GmbH**

Disclaimer:

The data, information and suggestions are provided for guidance purposes only.

Universal Polythex Kunststoffe GmbH accepts no responsibility for the results obtained there from, as neither for their utilization in infringement of possible patent rights. However the Company will provide the guaranteed values for each product on demand.

The information is believed to be good and reliable; however, we do not give any warranties.