

Product data sheet, October 2024

# Curvalite®

## Solid copolyester sheet



### Your benefits:

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

Solid **Curvalite®** sheets are made of thermoplastic co-polyester (NPG-based PET-G). They offer good impact strength, a good fire rating and are fully recyclable.

**Curvalite® GP clear 099** is a clear transparent sheet with high light transmission and gloss. **Curvalite® GP clear 099** is made from resin which can be used for food-contact applications.

### Applications:

Fields of application for **Curvalite®** are: P.O.S. (displays, price tag holders, shelf partitions), direction signs, promotional symbols, food containers and trays, partitions.

**Curvalite®** can be thermoformed at low energy consumption, short production cycles, high degrees of stretching and accurate mold surface reproduction, without predrying. The sheets are easy to screen print, 3D-print and machine.

	Test Conditions	Typical values	Unit	Standard
<b>PHYSICAL</b> Density		1.29	g/cm <sup>3</sup>	ISO 1183-1
<b>MECHANICAL</b> Tensile stress at yield Elongation at break Limiting flexural stress Impact strength	Izod, unnotched Izod notched at 23 °C	> 45 > 25 ca. 70 no break ca. 4	MPa % MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 180/U ISO 180/A
<b>THERMAL</b> Vicat softening temperature	Method B50	78	°C	ISO 306

These values are measured on injection molded samples, and are not intended for specification purposes.

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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 %	1	2	3	4	5	6
Curvalite® GP clear 099	89	88	87	87	86	85

### Available sizes:

**Curvalite® GP clear 099** is available in thicknesses of 1 - 6 mm. Our standard size has the dimension: 3,050 x 2,050 mm.

Please contact us, if you need other dimensions.

### Thermoforming:

Due to their flow and mold surface reproduction, **Curvalite®** sheets can be thermoformed at low temperatures without pre-drying. Because of its low specific heat capacity **Curvalite®** requires little energy for thermoforming. Tension in formed parts may influence the impact resistance.

### Permanent Service Temperature:

The maximum permanent service temperature without load is approx. 65 °C.

### Food compatibility

**Curvalite® GP clear 099** is made from resin which can be used for food-contact applications.

### Fire Rating (\*):

Country	Standard	Rating	Thickness	Color
Europe	EN13501-1	B-s1, d0	1-6 mm	clear 099

(\*): fire certificates are limited in time, always check if the mentioned certificate is still valid.

Exolon Group also produces multiwall sheets in polycarbonate (Exolon® multi UV), and solid sheets in polycarbonate (Exolon® GP) and in polyester (Vivak®, Axpert® and Inspria®). For more information, take a look at [www.exolongroup.com](http://www.exolongroup.com).



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