

Exolon® GP rECO

Solid polycarbonate sheet with pre-consumer regrind



Your benefits:

- contains almost 100% of pre-consumer recycled content
- extreme impact strength
- good fire rating

Solid **Exolon® GP rECO** sheets are clear, polished polycarbonate sheets which contain up to 100% of pre-consumer recycled content. They offer extreme impact strength that exceeds the physical properties of other products of their class. **Exolon® GP rECO** sheets resist temperatures of -100 to +120 °C and have a good fire rating.

Exolon® GP rECO is a clear transparent sheet available in 2 versions, one with 50% and one with almost 100% pre-consumer regrind.

Applications:

Exolon® GP rECO sheets can be used in most of the applications of virgin polycarbonate sheets, depending on the customers specification.

The sheets offer protection against involuntary breakage and wilfull destruction. The sheets can be thermoformed, cold-curved and machined with ease.

	Test Conditions	Typical Values ⁽¹⁾	Unit	Test Method
PHYSICAL				
Density		1200	kg/m ³	ISO 1183-1
Water absorption saturation	water at 23°C	0.3	%	ISO 62
Water absorption equilibrium	23°C, 50 % relative humidity	0.12	%	ISO 62
MECHANICAL				
Tensile modulus	1 mm/min	> 2200	MPa	ISO 527-1,-2
Yield stress	50 mm/min	> 55	MPa	ISO 527-1,-2
Yield strain	50 mm/min	5	%	ISO 527-1,-2
Strain at break	50 mm/min	> 90	%	ISO 527-1,-2
Charpy impact strength	23°C, unnotched	no break	kJ/m ²	ISO 179-1eU
THERMAL				
Vicat softening temperature	50 N, 50°C/h	148	°C	ISO 306
Thermal conductivity	23°C	0.2	W/(m.K)	ISO 8302
Coefficient of linear thermal expansion	23 bis 55°C	0.65	10 ⁻⁴ /K	ISO 11359-1,-2
Temperature of deflection under load	1.80 Mpa	128	°C	ISO 75-1,-2

⁽¹⁾ These values are measured on injection molded samples, and are not intended for specification purposes.

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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 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 %	3	4	5	6	8
Exolon® GP rECO clear 099	88	87	87	86	85

Availability:

This material is available in 2 versions:

Exolon® GP clear 099 rECO5 : contains 50% of pre-consumer recycled content

Exolon® GP clear 099 rECO10 : contains almost 100% of pre-consumer recycled content⁽¹⁾

⁽¹⁾ due to technical restrictions the recycled content will be more than 95% but below 100%.

Exolon® GP rECO sheets are available on request in clear 099 in thicknesses of 3 - 8 mm and in the following sizes; other sizes and sheet thicknesses on request.

Sizes (standard):

2,050 x 1.250 mm

3,050 x 2,050 mm

Permanent Service Temperature: The permanent service temperature without load is approx. 120 °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. **Exolon® GP rECO** is a circular product: it contains 50 to almost 100% of pre-consumer waste. This is waste which is generated after the sheets leave our factory but before they are used in their final application, e.g. during the fabrication stage of the final part.

The sheets may have slight variations in color and have a higher number of small inclusions, due to the recycled content. The use of recycled content has a positive impact on the ecological footprint by reducing waste and conserving resources.



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