

Exolon® UV rECO

Solid polycarbonate sheet with pre-consumer regrind



Your benefits:

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

Solid **Exolon® UV rECO** sheets are clear, polished polycarbonate sheets with UV protection on both sides which contain up to 100% of pre-consumer recycled content. They are the perfect choice for a long service life owing to their good weathering resistance. These attributes are backed up by our 10-year guarantee on weathering resistance and a 10-year guarantee on retaining their mechanical properties.

Exolon® UV rECO clear 2099 is a clear transparent sheet available in 2 versions, one with 50% and one with almost 100% pre-consumer regrind.

Applications:

- Exolon® UV rECO** is ideal for outdoor applications:
- covered walkways and bus shelters
 - barrel vaults and skylights (also thermoformed)

	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® UV rECO clear 099	88	87	87	86	85

Availability:

This material is available in 2 versions:

Exolon® UV clear 2099 rECO5 : contains 50% of pre-consumer recycled content.

Exolon® UV clear 2099 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%.

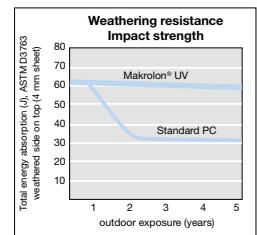
Exolon® UV rECO sheets are available on request in clear 2099 in thicknesses of 3 - 8 mm and in the following sizes; other sizes and sheet thicknesses on request

Sizes (standard):

3,050 x 2,050 mm

Permanent Service Temperature: The permanent service temperature without load is approx. 120 °C.

Weathering Resistance: Exolon® UV rECO sheets show excellent weathering resistance, which guarantees their impact strength even after many years. Since their introduction in 1989, the sheets have been examined in an intensive test program, including a real-time outdoor exposure test in a southern European climate (Bandol). The sheets are provided with a 10-year warranty on unbreakability and on optical properties.



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® UV 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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