



## PRODUCT PAGE



<b>Material:</b>	<b>Makrolon GP 099</b>
------------------	------------------------

### Overview:

Makrolon GP 099 is a high-performance polycarbonate sheet designed for general-purpose applications. It features a polished surface and is UV-stabilized, providing excellent clarity and resistance to the elements. Here's a breakdown of its key attributes:

### Description:

Solid Makrolon® sheets are clear, polished polycarbonate sheets. They offer extreme impact strength that exceeds the physical properties of other products of their class. Makrolon® sheets resist temperatures of -100 to +120 °C, exhibit high optical clarity and have a good fire rating.

Typical applications for Makrolon® GP sheets include machine guards, lighting fixtures, signs, wall and door partitions. The sheets offer protection against involuntary breakage and wilfull destruction. Makrolon® GP sheets can be thermoformed, cold-curved and machined with ease.

### Key Features:

- **Impact Resistance:** Makrolon GP 099 is noted for its outstanding impact strength, making it 250 times more resistant to impact than glass and 30 times more than acrylic?
- This property makes it ideal for applications where safety and durability are paramount, such as machine guards and protective glazing.
- **Light Transmission:** The sheet allows for approximately 86% light transmission, ensuring good visibility while maintaining energy efficiency?
- **Thermal Stability:** It has a high heat deflection temperature, around 120°C, which allows it to withstand various thermal environments?
- **Easy Fabrication:** The material is lightweight and can be easily fabricated, allowing for cutting, drilling, and thermoforming without compromising its structural integrity?

### Applications: Makrolon GP 099 is versatile and used in various settings, including:

- School and factory glazing for safety against breakage
- Clear workstation partitions and machine guards
- Displays, signage, and advertising media
- Furniture and interior design elements

### Parameters:

Characteristics	Units	Value	Test Method
Series		Polycarbonate	
Thickness	mm	8	
Color		Clear	

Operation temperature	°C	-40 - 120	
Density	g/cm <sup>3</sup>	1.19	ISO 1183
Light Transmission	%	85	ISO 13468-2
Reflexive index	-	1.587	ISO 489
Flexual strength	MPa	90	ISO 178
UV protection	-	1	

**Warranty:****Technical data**

All information and statements contained in this document are based on the manufacturer's or material supplier's sources known to us at the time of filing. PERLON, spol. s r.o. believes them to be reliable in good faith, but the accuracy and/or completeness of such information is not guaranteed. The data should be considered representative or typical only and should not be used for specification purposes. Manufacturers reserve the right to make changes to the design, construction and technical data of products without prior notice.

**Use of the product**

Many factors beyond the control of PERLON, spol. s r.o. and known only to the user may affect the use and performance of materials in a particular application. Therefore, we recommend that the customer perform their own tests of the suitability and performance of the material for their application and to a responsible extent for reliable results. As a result, the customer is solely responsible for evaluating the product and determining if it is suitable for the customer's application, including evaluating workplace hazards and reviewing all applicable regulations and standards. Failure to properly evaluate, use, or comply with all applicable safety regulations may result in injury, illness, death, and/or property damage if the material and associated safety is not properly evaluated. PERLON, spol. s r.o. makes no warranties of fitness for a particular purpose.

**Limitation of liability**

PERLON, spol. s r.o. shall not be liable for any loss or damage arising out of or relating to the product material, whether direct, indirect, special, incidental or consequential (including, but not limited to, loss of products or business), regardless of the applicable legal practice, including but not limited to warranty, contract, negligence or strict liability.

[www.convertimg.sk](http://www.convertimg.sk)