PRODUCT PAGE

Material:	Makrolon GP 099

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	5	
Color		Clear	

Operation temperature	°C	-40 - 120	
Density	g/cm³	1.19	ISO 1183
Light Transmission	%	87	ISO 13468-2
Reflextive index	-	1.587	ISO 489
Flexual strength	MPa	90	ISO 178
UV protection	-	1	

Warranty:

Technical data

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