

# Altuglas® CI-30

Ref 174 -176

You need an acrylic sheet more impact resistant than standard cast acrylic sheet? Altuglas® CI-30 has been designed to reinforce this characteristic while maintaining its excellent traditional (UV resistance, solvent resistance and excellent light transmission, ...).

## Reinforce your final product

An acrylic sheet, light, with improving impact resistance and easy to thermoform.

Thanks to its impact and thermoforming reinforced properties, this acrylic sheet is easy to thermoform. The risk of breakage is reduced during demolding and handling operations. Altuglas® CI-30 is available in clear or in your favourite transparent colour. Two effects of surface: glossy or matt one side

### Performances

#### Product Advantages



#### The winning combination of properties:

**x 2 to 2.5**  
more impact resistant  
than standard acrylic sheet (Charpy test)  
Easy to thermoform

The perfect sheet for

- > signs,
- > the transportation industry
- > in the industry for machine protection

[www.altuglas-online.com](http://www.altuglas-online.com)

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## Reinforce your final product

The perfect sheet with reinforced mechanical properties, ideal for

- > signs,
- > the transportation industry
- > in the industry for machine protection

### Technical specifications

	Test Method	Unit	Value
<b>Main Characteristics</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1,18
Water adsorption at 24 hours	ISO 62	%	0,3
Water adsorption at 8 days	ISO 62	%	0,5
Thermoforming retract	145°C - 1h	%	2
<b>Mechanical properties</b>			
Flexural strength	ISO 178	MPa	3000
Charpy impact strength – un-notched	179/2eU	kJ/m <sup>2</sup>	30
Charpy impact strength - notched	ISO 179 1eA	kJ/m <sup>2</sup>	2
Hardness - Rockwell scale M	ISO 2039	MPa	100
<b>Thermal properties</b>			
Vicat (50N)	ISO 306	°C	110
Coefficient of linear expansion	ISO 11359	mm/m/°C	0,65
Maximum continuous temperature service	-	°C	80
Thermal conductivity	DIN 52 612	W/mk	0,2
Thermoforming temperature	0	°C	150-180
<b>Optic properties for clear sheet</b>			
Refractive index	ISO 489	-	1,492
Light transmission (3mm thickness)	ISO 13 468	%	88
Haze (20°C) (sheet -thickness = 3 mm)	ISO 14 782	%	1
Euroclass	EN 13501	Class	E
UL	UL 94	Class	HB

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