

Altuglas® EasyForming

ref 150-151

You would like to develop special shapes or unconventional design for your project!

Especially designed for thermoforming applications, this acrylic sheet reach a higher thermoforming definition for complex shapes than standard PMMA.

Reinforce your final product

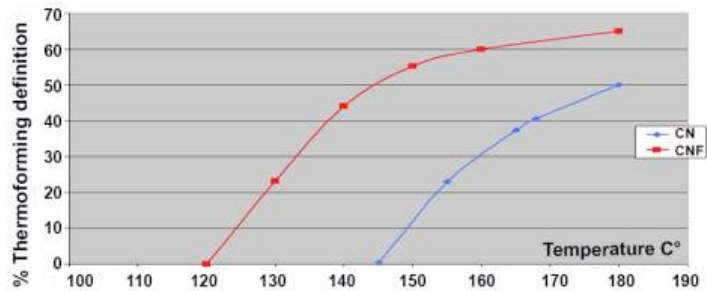
Make the most complex design with this easily formable sheet.

At similar temperature, the thermoforming definition is significantly improved. Altuglas® EasyForming is working well at lower temperature offering cycle time reduction.

Altuglas® EasyForming acrylic sheet is available in Clear, Opal & colours. Surface : Glossy or 1 matt side.

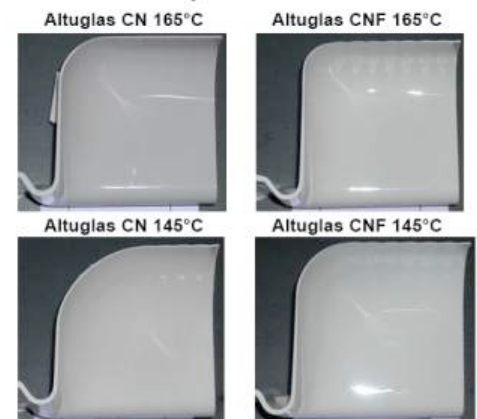
Performances

Key benefit



Heated between 130 and 180 ° C, the Easyforming acrylic sheet called CNF provide up to **65% definition** against 50% for standard acrylic sheet CN (for a temperature between 165 and 190 ° C).

Thermoformability



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Technical Specifications

	Measurement method	Unit	Value
General characteristics			
Density	ISO 1183	g/cm ³	1.19
Water absorption (24H)	ISO 62	%	0.3
Water absorption (8 days)	ISO 62	%	0.5
Thermoforming retract	145°C - 1h	%	2
Mechanical properties			
Modulus of elasticity	ISO 527-2	MPa	3300
Flexural strength	ISO 178	MPa	3250
Tensile strength – resistance at brake (23°C)	ISO 527	kJ/m ²	76
Charpy Impact strength (un-notched)	ISO 119/2D	kJ/m ²	12
Surface hardness (Rockwell scale M)	ISO 2039	-	100
Thermal properties			
Vicat (B50)	ISO 306	°C	115
Coefficient of linear expansion	ISO 11359	mm/m/°C	0.65
Thermal conductivity	DIN 52 612	W/mk	0.2
Maximum continuous temperature service	-	°C	85
Thermoforming temperature	-	°C	150-180
Optical properties			
Refractive index	ISO 489	-	1,492
Light transmittance (3mm thickness)	ISO 13 468	%	92
Haze (20°C) (sheet -thickness = 3 mm)	ISO 14 782	%	1
Flammability			
Self-ignition temperature	-	°C	Approx. 450
Melt behaviour when burning	-	-	Non- drip
Resistance to incandescent wire	EN 60 695-2-11	°C	750
Euroclass	EN 13501	-	E
UL	UL 94	-	HB

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