

## ACRILICO COLATO CRYLUX<sup>®</sup> Beauté



### 1. PRODUCT IDENTIFICATION

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CRYLUX<sup>®</sup> Beauté is a poly methyl methacrylate cast sheet specially designed to have a better chemical resistance than standard PMMA cast material.

### 2. CHARACTERISTICS

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CRYLUX<sup>®</sup> Beauté has a special formulation that make the material more resistance to chemical attack. Polymer structure is more compact, and it does not allow solvents to penetrate easily.

Due to this special polymer structure, the material will be more difficult to glue with standard acrylic glues, more contact time with the glue will be required.

This compact polymer structure would cause certain rigidity of the material and will make thermoforming more difficult. CRYLUX<sup>®</sup> Beauté contains special additives that make thermoforming as easy as with standard material.

Its special formula makes CRYLUX<sup>®</sup> Beauté more resistant to chemicals even under conditions causing stress to the sheets (pieces that have been laser cut, flame polished, hot bent, milled, drilled,...). This makes the material suitable for screen printing process under stress conditions as well.

CRYLUX<sup>®</sup> Beauté can be produced upon request in any colour reference from transparent to opaque and with smooth or matt surfaces, increasing the possibilities of final product design.

### 3. APPLICATIONS

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- POP perfumes, chemical agents
- External medical applications
- Laboratory applications
- Screen printing (under stress)
- Beauty salons

### 4. FABRICATING AND FINISHING TECHNIQUES

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CRYLUX<sup>®</sup> Beauté intrinsically formulation makes it as easy to thermoform as standard material. Gluing process would be more complicated due to its high chemical resistance. Gluing conditions will be different as for standard CRYLUX<sup>™</sup> material.

To avoid damage during transport and handling, they are supplied protected with PE film on both surfaces. For general information about handling CRYLUX<sup>™</sup>, please refer to the "USER GUIDE", available on request

## 5. TECHNICAL INFORMATION

### OPTICAL

Property	Method	Units	CRYLUX <sup>®</sup> Beauté
Light transmission			92%

### CHEMICAL RESISTANCE

Chemical agent	Method	Units	CRYLUX <sup>®</sup> Beauté
Resistance to Ethylic alcohol 85°C	ISO 75	15 days	Resistant
Acetone	ISO 75	4 h	Resistant
Ethyl Acetate	ISO 75	8 h	Resistant

### THERMAL

Property	Method	Units	CRYLUX <sup>®</sup> Beauté
VICAT softening temperature VST/A50	ISO 306	°C	>105
Maximum temperature (continuous use)		°C	75
Thermoforming/bending temperature		°C	130-190

NOTE: Data measured in 3mm

## 6. CHEMICAL RESISTANCE TESTS

In order to evaluate CRYLUX<sup>®</sup> Beauté improved chemical resistance we have carried out some tests in an external lab. These tests have been done according to norm ISO 75. This norm is very demanding thus the sample is sink completely in the solvent to be tested (in normal conditions the solvent will reach only the surface). These tests have shown remarkable differences between CRYLUX<sup>™</sup> and CRYLUX<sup>®</sup> Beauté .

Internally, in our lab, we have tested the material under stress. These tests are even more demanding than ISO 75. The sheets have been cold bent to a small radius. An absorbent paper has been placed in the surface to avoid solvents volatilisation and increase contact time between the solvent and the sample. This paper has been wetted with the solvent and the results are shown in the chart below:

Chemical agent	CRYLUX <sup>™</sup>	CRULUX <sup>™</sup> Beauté
Resistance to Ethylic alcohol 85°C	Breaks	Slight crazing
Acetone	Breaks	Crazing
Ethyl Acetate	Breaks	Slight crazing

## 7. SPECIAL RECOMMENDATIONS

Please remember that CRYLUX<sup>®</sup> Beauté due to its internal structure will be more difficult to glue. Sample will require more aggressive glues or longer attacking times

Note: These technical data of our products are typical ones; the actually measured values are subject to production variations.

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