

ACRILICO COLATO CRYLUX[®] Argenta



1. PRODUCT IDENTIFICATION

CRYLUX[®] Argenta is a new range of colours with special characteristics enlarging CRYLUX[®] range. CRYLUX[®] Argenta material is obtained by casting process in our factory in Montcada (SPAIN).

2. CHARACTERISTICS

CRYLUX[®] Argenta is a special material with two different surfaces:

Sparkling coloured: this surface has a maximum gloss and a deepness effect

Metallic silver: opaque aspect silver metallic

Material is opaque in flat application, but it can be easily thermoformed to any shape, gaining light transmission up to an average of 30% (depending on colour reference). The colour of the thermoformed piece has degrade effect changing colour intensity depending on the shape.

Due to inner composition and production process, material has a certain particle orientation. This results in a colour which has different colour shades depending on visual angle.



3. APPLICATIONS

- POP displays
- Decoration
- Publicity
- Furniture
- Lighting applications
- Thermoformed pieces

4. FABRICATING AND FINISHING TECHNIQUES

CRYLUX® Argenta sheets are as easy to handle as standard CRYLUX® material.

Sawing, drilling, printing, milling, mechanical polishing, thermoforming, hot bending do not offer any problems to this special product.

In case of laser cutting or laser engraving, laser has to incide in the coloured sparkling surface.

To avoid damage during transport and handling, they are supplied protected with PE film on both surfaces. This film is coextruded film, especial for thermoforming and thermal treatments.

For general information about handling CRYLUX™, please refer to the "USER GUIDE", available on request.

5. TECHNICAL DATA

GENERAL

Property	Method	Units	CRYLUX®Argenta
Density	ISO 1183	g/cm ³	1.19
Water absorption	ISO 62, Method A	%	<0.5
Rockwell Hardness	ISO 2039-2	M scale	100

MECHANICAL

Property	Method	Units	CRYLUX®Argenta
Tensile Strength	ISO 527	MPa	75
Elongation	ISO 527	%	6
Tensile Modulus	ISO 527	MPa	3400
Flexural Strength	ISO 178	MPa	120
Flexural Modulus	ISO 178	MPa	3200
Charpy (unnotched)	ISO 179	kJ/m ²	12
Charpy (notched)	ISO 527	MPa	75

THERMAL

Property	Method	Units	CRYLUX®Argenta
Vicat Temp. (VST/B 50)	ISO 306	°C	110
Specific Heat Capacity	ISO 3146-C-60°C	J/g.K	2.16
Linear thermal expansion	ISO 11359-2	mm/m°C	0.07
Thermal conductivity	DIN 52612	W/m.K	0.19
Max. service temperature continuous use		°C	80
Max service temperature short term use		°C	90
Degradation temperature		°C	>280

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CRYLUX® sheets are - at room temperature - resistant to saturated hydrocarbons, aromatic free carburettor fuel and mineral oils, vegetable and animal fats and oils, water, aqueous salt solutions as well as diluted acids and alkalis.

Aromatic hydrocarbons and hydrogen chlorides, ester, ether and ketones attack CRYLUX™.

Chemical resistance at 20°C

Acetone	-	Ethyl acetate	-	Acidity of wine	+
Ammonia	+	Glycerine	+	Xylene	-
Amyl alcohol	-	Fuel oil	o	Paraffin	+
Benzene, free from aromatics	+	Hexane	+	Petroleum ether	+
Benzole	-	Isopropanol	o	Phosphoric acid 10%	+
Boric acid	+	Coffee	+	Sulphuric acid 10%	+
Butanol	-	Caustic potash solution	+	Nitric acid 10%	+
Chlorinated hydro-carbon	-	Ketone	-	Hydrochloric acid 10%	+
Chloroform	-	Methylene chloride	-	Hydrochloric acid conc. 35%	+
Chlorinated water/air	o	Lactic acid 10%	+	Sodium carbonate	+
Dibutyl phthalate	o	Mineral oil	+	Salad vinegar	+
Diocetyl phthalate	o	Caustic soda	+	Stearic acid	+
Glacial acetic acid	-	Nitrocellulose lacquer	-	Tea	+
Acetic essence	-	Oxalic acid	+	Turpentine	+
Aqueous acetic acid	+	Wax	+	Toluene	-
Ethanol	o	Hydrogen peroxide	o	Methylamine	+

- + resistant
- o limited resistance
- not resistant

6. COLOUR RANGE

CRYLUX® Argenta range is today formed by six different colours:

CRYLUX® Argenta			Similar Pantone	Similar RAL
	Grey	6010	422C	9022
	Gold	6210	4495C	1036
	Red	6610	704C	3032
	Green	6510	7475C	6036
	Violet	6710	5285C	4012
	Blue	6810	5405C	-
	Black	6910	7547C	-

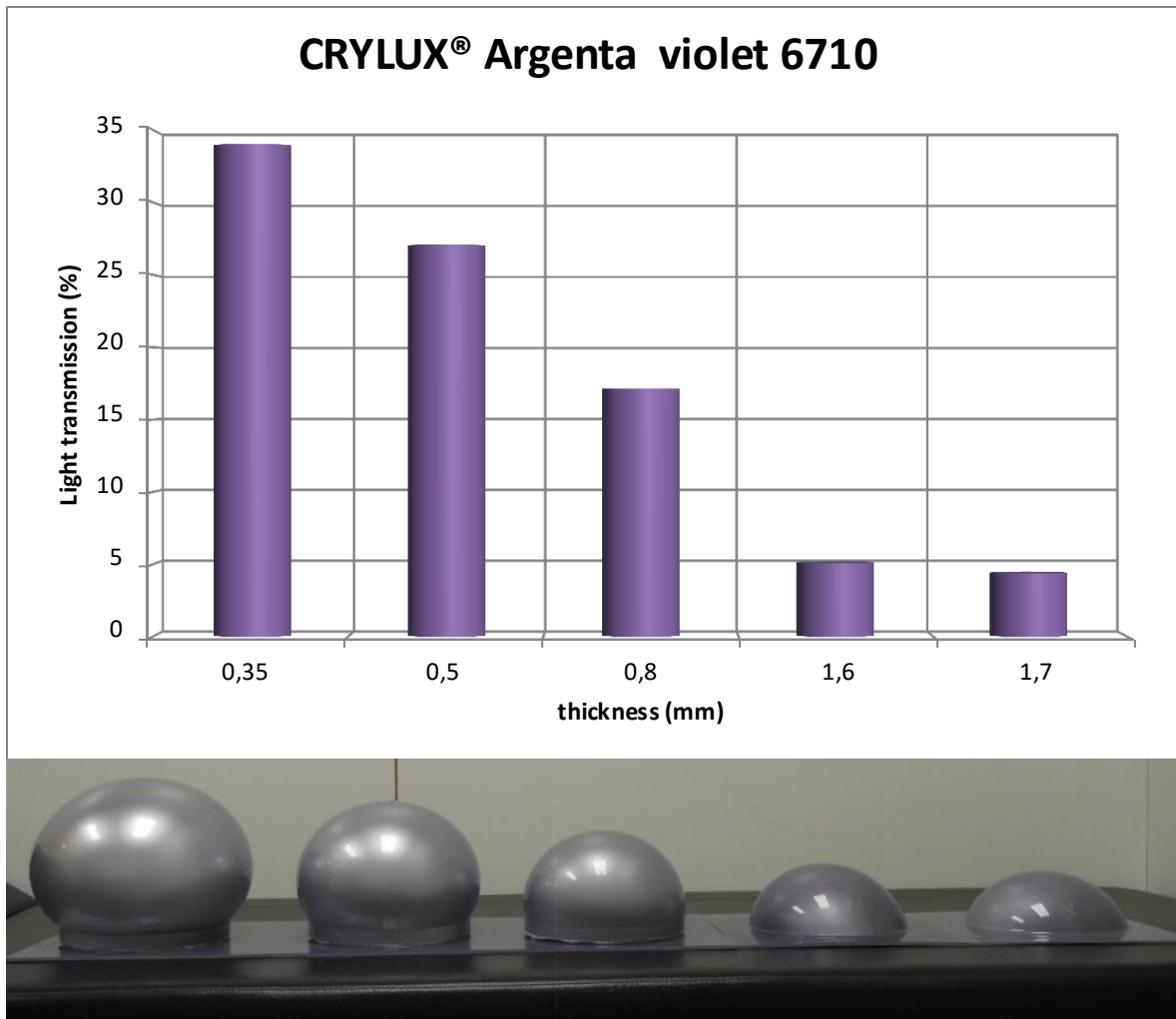
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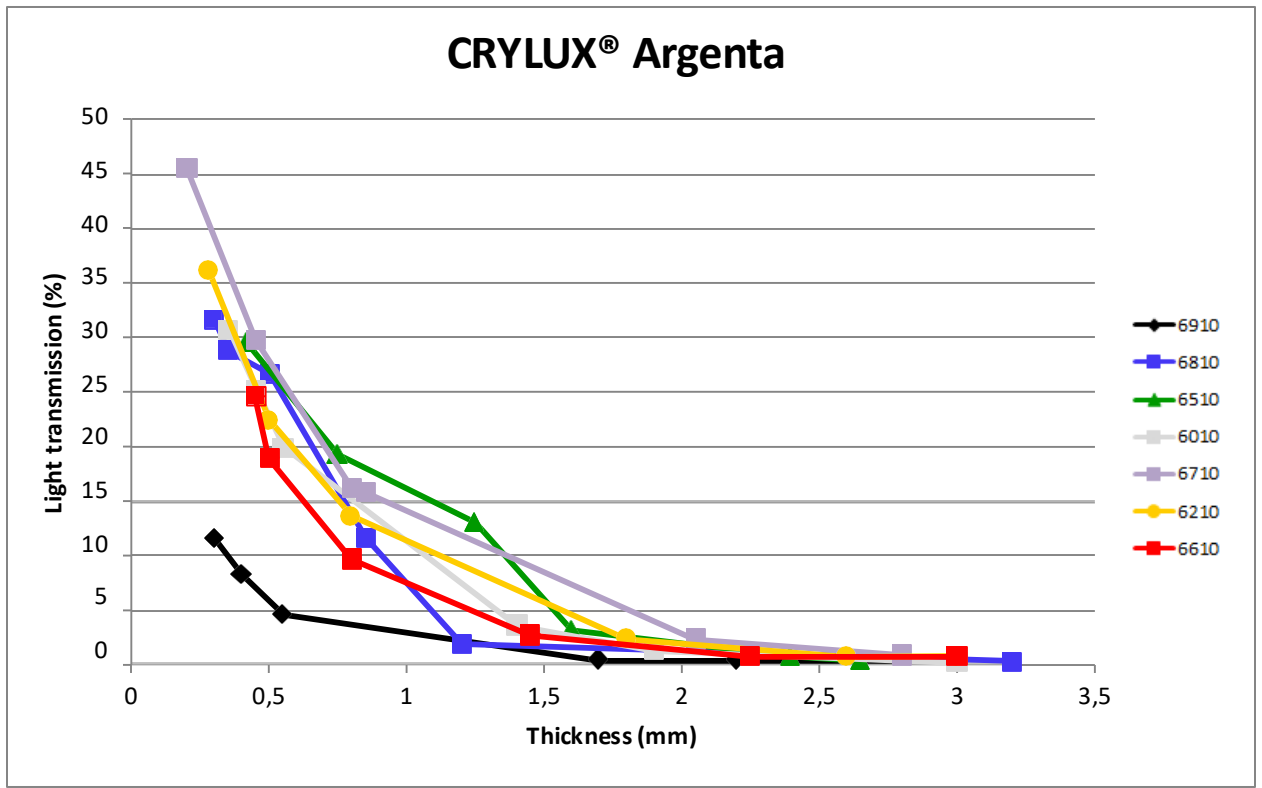
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7. THERMOFORMING

CRYLUX[®] Argenta is easy to thermoform. Light transmission of the material increases when reducing thickness. Each colour behaves in a different way but as a general data material can reach a maximum of a 30% light transmission.



Each CRYLUX[®] Argenta colour has his own thermoforming curve which has been measured in laboratory. These curves can be used for light transmissions estimation depending on final thickness of the thermoformed piece:



8. SUPPLYING PROGRAM

■ CRYLUX [®] ARGENTA	3050 x 2030	2	2,5	3	4	5
		•	•	•	•	•

CRYLUX[®] Silver range is standard in 3mm; therefore, there are no minimum order required. As shown in chart below, it can be produced up to 5mm but subjected to minimum quantities. Please contact our sales department

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