

TECHNICAL SHEET Setacryl® Food Contact Cast acrylic sheets certified for food contact



Technical-commercial information

Setacryl® Food Contact is an acrylic sheet produced by Madreperla, created to satisfy the new European directives which apply to materials and objects in plastic destined to come in contact with food (see note).

Certification

Setacryl® Food Contact acrylic sheets are projected to comply with UE Regulation n.10/2011. The sheets are Bisphenol A free.

Setacryl® Food Contact is an alternative to other plastics for the realization of food counter display units, products

and containers for food, trays... enhancing your products with a large range of colours.

It's compatible with alcohol water based solutions (up to 15%), fatty and oily foods.

The physical-chemical properties and the post-machining procedures (cutting, drilling, thermoforming, gluing) of **Setacryl® Food Contact** are essentially the same of Setacryl®, Polarlite®, Setasand®, Satinglas®, Seta – LED®, Seta – LETTER®, acrylic sheets.

Colour range:

Madreperla S.p.A has a standard colour range , includes:

- clear
- opal
- black

Upon clients request Madreperla can customize finishes, colours and thicknesses . For more information you can contact our commercial office.

Food Contact® Traceability:

Every production batch is certified, and is delivered with the traceability reference, complying with:

- UE regulation n.10/2011.
- DM 21.3.73 (SO der GU n.104 , 20 April 1973)

TECHNICAL SHEET Setacryl® Food Contact
Physical-chemical properties.

	Method	Unit of measurement	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.19
Water absorption after 24 h	ISO R 62/DIN53495	%	0.3
Optic Properties			
Transmittance (on colourless material)	ISO 4892-1 DIN 5036	%	92
Haze (on colourless material)	ASTM D 1003	%	< 0.5
Refraction index (on colourless material)	ISO 4892/DIN 53491	°C	1.49
Mechanical Properties			
Coefficient of elasticity due to pulling stress 23°C	ISO 527-2/1 B/1	MPa	3300
Ultimate elongation 23°C	ISO 527-2/1 B/5	%	5
Tensile strength 23°C	ISO 527-2/1 B/5	MPa	76
Flexing resistance	ISO 178	MPa	110
Compression resistance	ISO 604	MPa	110
IZOD impact resistance with notch	ISO 180/ 1 A	kJ/m ²	1.4
Charpy impact resistance without notch	ISO 179/ 1	kJ/m ²	13
Abrasion resistance	ISO 14782	%	0.5 to 1
Maximum allowed tension		MPa	5-7
Minimum cold curvature radius		mm	330 x thickness
Thermal Properties			
Softening time (Vicat)	ISO R 306 Method A 50	°C	>108
Deflection time (HDT)	ISO 75/A	°C	>102
Maximum running time		°C	80
Linear Expansion Coefficient	VDE 0304/1		7
Thermal conductivity	DIN 52612	W/m/°C	0.17
Fire Behaviour			
Self-ignition temperature	DIN 51794	°C	430 c.a.
Fire Behaviour	NF P 9250		M4
Euro class	EN 13501		E
UL	UL 94		HB
Other Properties			
Poisson Coefficient	ISO 527 -1		0.39
Thermoforming Parameters			
Thermoforming Interval		°C	140-190
Heating furnace temperature		°C	130-180
Maximum heating temperature		°C	200
Shrinkage after heating		%	2.5 max
Certificate			
Food contact n.10/2011	UE		yes