



Subject: *Specifications of pure cast acrylics for underwater use*

RV. 002123b-14

This certification refers to purecast acrylic blocks with high molecular weight, manufactured by:

CLAX ITALIA

This said acrylic production is identified under the trademark **AQuariA** ® which shows the following **values:**

PROPERTIES	VALUES	RULES ASTM
Density	1,19g/cm ³	D 792
Modulus of Elasticity	≥ 3300 N/mm ²	D790
Flexural strength	≥ 120 N/mm ²	D 798
Tensile Strength	≥ 80 N/mm ²	D 638
Elongation	≥ 5 %	D 638
Molecular Weight	> 3.000.000	/
Free Monomer	< 1%	/
Light Transmittance	≥ 92%	D 1003
Turbidity	≤ 0,5%	D 1003
Refractive Index	1,49	D 542
Vicat	> 105° C	D 1525
water absorption	≤ 0,2%	D 570

The production of high thickness cast acrylic blocks with high molecular weight for underwater use, is a Clax Italia AQuarium Division's ® prerogative and it is identified under the trademark AQuariA ®, that also grants:

- Calculated and calibrated thicknesses, chemical and physical properties, according to the static and steady lift due to the water weight upon one of the two surfaces.
- Pure cast polymethylmethacrylate (PMMA) blocks subjected to a normalising process in order to grant the total polymerisation and the reduction of the material's inside tensions.
- Clear surfaces with a minimum light transmission of ≥ 92%.
- Observance, and certified of the **ASME PVHO -1**, Safety standards for Pressure Vessels for Human Occupancy .

Clax Italia
 Technical Division, the Manager

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Cap. Soc. Euro 500.000,00 i.v. - N Meccanografico RM 032826
 P.I. 04750441000 - C.I.A.A. 800017 - Trib Rome 6603/94



Reg. n. 3987
 UNI EN ISO 9001:2008
 UNI EN ISO 14001:2004
 UNI EN ISO 16001:2011

Certification
 n. 77379-10 HH
 n. DZ 127 HH 0
 n. KBZ 1140 HH