

The ideal
combination
of **performance**
and **value**

Altuglas® **Resins**



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The Altuglas® product range of polymethyl methacrylate (PMMA) thermoplastic resins offers **an ideal combination** of performance and value.



Indeed, design flexibility, premium aesthetics and an extremely long service life are Altuglas® PMMA key benefits for manufacturing high added value parts through both injection and extrusion processes.

Altuglas International manufactures and markets its polymers in compliance with REACH.

Moreover, none of the substances listed in the « Candidate List of Substances of Very High Concern» (SVHC) is intentionally added in its production processes.

Compliance statements to European Directives such as as the RoHS (EC/2002/95), the ELV (EC/2000/53), the W3E (EC/2002/96), and many others are available upon request.

Altuglas® acrylic resins are not formulated with plasticizers, Bisphenol A or any other substances likely to migrate.

They also comply with the EN/71 part 3.

The Altuglas® International Rho (MI, Italy) plant has implemented and maintains an environmental management system in accordance with UNI EN ISO: 9001:2008 and 14001:2004, as well as with the stringent automotive ISO/TS 16949:2002.

Altuglas International manufactures, sells and imports its products, respecting the Reach obligations.





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Standard Grades

Altuglas®
V 046

Altuglas®
V 825T

Altuglas®
V 920T

Altuglas®
V 920

Altuglas®
VM / VML

Thermal properties

Melt flow index (230°C/3.8kg) (g/10 mm)	D-1238	53735	1133	2	2.8	6	8	14.5
Vicat softening temperature (°C)	D-1525	53460	306B50	101	108	103	101	90
HDT: 1.80 MPa (°C)	D-648	53461	75-2	92	100	95	90	77
Coefficient of linear expansion (10 ⁻⁶ /°K)	D-696	53752A	-	65	65	65	70	70

Optical properties

Reflective index B	D-542	53491	R-489	1.49	1.49	1.49	1.49	1.49
Light Transmittance (%)	D-1003	5036	-	92	92	92	92	92
Haze (%)	D-1003	5036	-	0.5	0.5	0.5	0.5	0.5

Mechanical Properties

Impact resistance (Charpy unnotched) (kJ/m²)	-	53453	179-1	11	11	11	11	11
Impact resistance (Charpy notched) (kJ/m²)	-	53453	179-1	2	2	2	2	2
Impact resistance (Izod notched) (kJ/m²)	D-256	-	180/1a	1.8	1.8	1.8	1.8	1.8
Tensile strength (MPa)	D-638	53455	527-2	70	70	70	69	65
Elongation at break (%)	D-638	53455	527-2	6	6	6	6	5
Flexural modulus (MPa)	D-790	53452	178	3300	3300	3300	3300	3100
Rockwell hardness	D-785	-	-	M-96	M-97	M-96	M-95	M-89

General Properties

Density (g/cm³)	D-792	53479	1183	1.18	1.19	1.18	1.18	1.18
Water absorption (%)	D-570	53495	62	0.3	0.3	0.3	0.3	0.3
Mould shrinkage (%)	D-955	-	-	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6

Flammability

Fire resistant (Class)	UL/94	-	-	HB	HB	HB	HB	HB
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Data given are average values and should not be used for specification purposes

Impact Resistant Grades

Specialty Grades

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The information contained in this document is based on trials carried out by our Research Centres and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Altuglas International with regard to the handling, processing or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.

Welcome to the world of Altuglas International, subsidiary of Arkema group

Altuglas International, a global integrated leader in PMMA is heavily involved in the technical plastic sector – from MMA monomer to PMMA acrylic glass – creating and manufacturing innovative products to suit customers' needs worldwide.

Its 1,300 highly committed staff make their contribution daily in our three businesses (MMA, sheet and PMMA resins).

Its five great brand names are references:

Altuglas®, Plexiglas® (Americas), Oroglas®, Solarkote®, Tuffak® (PC).

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