



UNITED
DELTA

Easy way to find materials

Hi-Quality service for supply

Solvent Chemicals
Acrylic Resins, PMMA

uniteddeltasg.com

Need help with easier industrial solutions? We are experts! United Delta Trading Pte Ltd is a Stockist and Distribution company, focusing in commodities such special products and materials. The company's objective is to connect our customers and suppliers locally and globally.

Solvent Chemicals

Acrylic Resins, PMMA

Solvent chemicals product list

Wide range product for industry supply wide range application, large stock solvent materials by us.

2-ETHYLHEXYL ACRYLATE (2EHA)

CYCLOHEXANONE(CYC)

DIETHYLENE GLYCOL (DEG)

DIMETHYL DISULFIDE(DMDS)

DIPROPYLENE GLYCOL (DPG)

ETHYL ACRYLATE (EA)

GLACIAL ACRYLIC ACID (GAA)

HEXYLENE GLYCOL (HG)

HYDRAZIN HYDRATE (HH)

ISO PROPYL ALCOHOL (IPA)

ISOPHORONE (IPHO)

METHANESULFONIC ACID(MSA)

METHYL ISOBUTYL CARBINOL(MIBC)

METHYL METHACRYLATE (MMA)

METHYLCYCLOHEXANE (MCH)

METHYLENE CHLORIDE (MC)

N-BUTYL ACETATE (NBAC)

PROPYLENE GLYCOL (PG)

TERT-DODECYL MERCAPTAN (TDM)

TETRAHYDROFURANE (THF)

THIOGLYCOLIC ACID(TGA))



Global Exclusive supply Hi-Quality Acrylic Resins & PMMA



UNITED DELTA TRADING PTE LTD , a leading supplier of PMMA, provides speciality material solutions that are designed to meet the needs of our customers and their specific applications. PMMA resins are available under the **ALTUGLAS™** brands.

We're coming for providing large distribution of Acrylic Resins & Polymethyl methacrylate (PMMA), more sustainable ways, using our premier expertise and best-in-class materials to unlock value for companies and consumers alike. We provide various types of thermoplastic acrylic resin, according to your industrial needs. We serve various industries, such as plastic paint, automotive paint, wood paint, aerosol paint, various kinds of inks, and others. If you need a more detailed consultation regarding thermoplastic acrylic resin.

- Wide range supply to expand the market of our product.
- Maintain close partnerships with our customers to understand their needs and deliver solutions quickly.
- Focus on new developments for our key markets.

PRODUCT RANGE

ALTUGLAS™ PMMA Resins



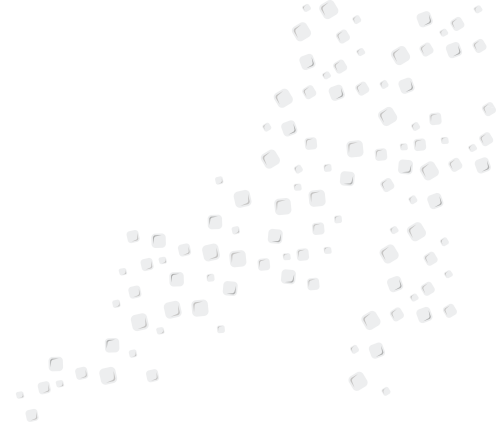
From standard grades to high-end and technical materials, our complete ALTUGLAS™ polymethyl methacrylate (PMMA) resin portfolio meets ever higher standards for resistance to UV rays, impact, scratches, chemical factors, and temperature. Trinseo works closely with your team to deliver solutions that allow for exceptional design flexibility, premium aesthetics, and easy processing for injection molding or extrusion processes.

ALTUGLAS™ acrylic resins offer a broad range of light management grades and key properties designed to enhance even the most challenging applications in the automotive, appliance, lighting, building and construction, and consumer goods industries. Combining technical performance, such as high heat resistance, with the outstanding optical performance of PMMA, ALTUGLAS™ solutions gives you the freedom to create.



Acrylic Resins & PMMA Product By Application

UNITED DELTA TRADING PTE LTD



PMMA Chemical Resistance - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ HCR-3 Clear

This grade offers outstanding performance with high transparency, excellent scratch resistance and superior chemical resistance, while continuing to meet your need for durability and aesthetics.

ALTUGLAS™ CR-8 clear

This grade is an impact-modified PMMA with excellent chemical resistance.

ALTUGLAS™ CR-8 Supermatt

The ALTUGLAS™ CR-8 Super Matt grade is a new textured chemical-resistant grade, specially designed for co-extrusion applications.

PMMA General Purpose - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ V 046

Extrusion resin with high heat resistance.

ALTUGLAS™ V825T

Both injection and extrusion resin have good flow and high heat resistance.

ALTUGLAS™ V 920T / V 920

Injection molding resin with high flow and heat resistance.

ALTUGLAS™ VM

Injection molding resin offers very high flow but slightly lower heat resistance.

ALTUGLAS™ VML

Lubricated version of ALTUGLAS™ VM grade intended for injection of complex parts with easier demolding.

PMMA Heat Resistance - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ HT 121

This is the material of choice for optical and aesthetical applications requiring thermal resistance combined with outstanding UV (AMECA certification) & scratch resistance. ALTUGLAS™ HT 121 grade is typically used in sensitive automotive tail light and cluster lens designs, household appliances and displays.

PMMA High Impact - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ MI

ALTUGLAS™ MI (Middle Impact) grades offer improved flexibility for easier processing (especially during demoulding and assembly steps) while maintaining high heat and scratch resistance. Suitable for both injection & co-extrusion processes.

ALTUGLAS™ MI-4T and ALTUGLAS™ V052I:

Medium impact resistance with the highest heat and scratch resistance of the Impact grades.

ALTUGLAS™ MI-7T:

Higher impact resistance. The leading material for coextrusion onto ABS substrate.

ALTUGLAS™ HFI

ALTUGLAS™ HFI (High Flow and Impact) grades offer superior flow and mould release properties for excellent processability and reduced cycle times, even for the most critical injection work. HFI materials offer outstanding impact resistance and flexibility.

ALTUGLAS™ HFI-7:

High impact resistance with very high flow and excellent processability.

ALTUGLAS™ HFI-10:

Very high impact resistance with high flow.

ALTUGLAS™ HFI-15:

Highest impact resistant grade, while maintaining good flow; ideal for 3-layer co-extrusion and sharp angle thermoforming.

ALTUGLAS™ DRT

ALTUGLAS™ DRT extrusion resin offers very high impact and heat resistance (100°C in Vicat B50).

PMMA Lighting Performance - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ Diffuse

This range provides an ideal combination of properties, including masking hot spots through spatial light diffusion, without sacrificing the PMMA diffuser's light output.

ALTUGLAS™ White

This range has a particularly bright, opalescent finish.

ALTUGLAS™ Reflect

ALTUGLAS™ Reflect maximises the lumen output of the whole system through effective light reflection.

ALTUGLAS™ HT121

This unique high temperature-resistant grade is ideal for light fittings requiring high power LEDs in tiny spaces.

ALTUGLAS™ Night & Day

ALTUGLAS™ resins also have smart materials for amazing finishes such as ALTUGLAS™ Night & Day.

PMMA Medical - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ VSUVT

ALTUGLAS™ VSUVT provides exceptional UV transmission and excellent transparency, making it an excellent choice for in vitro diagnostic use.

ALTUGLAS™ SG-7 & ALTUGLAS™ SG-10

ALTUGLAS™ SG-7 and ALTUGLAS™ SG-10 impact-modified resins are designed specifically for the medical market. These resins can meet some of the toughest device requirements in terms of processing, sterilization, clarity, performance and regulatory compliance. They are specifically engineered for intricate and multi-compartment parts, making them excellent for applications such as dialysis cassettes, IV components, drug delivery systems and canisters. Molded medical devices using these resins also offer good resistance to lipids, moisture, most inorganic aqueous solutions, saline solutions, mineral oil, and limited exposure to IPA in water.

PMMA Optical - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ V825T LPL clear

Optical PMMA grade with high light transmission and optimized color neutrality. Designed to maintain optical and color stability under thermal exposure.

PMMA Surface Effect - ALTUGLAS™ Acrylic Resins

Matt grades

ALTUGLAS™ DRT Matt grade provides a low gloss, soft touch finish.

Super matt grades

ALTUGLAS™ HFI-10 Super Matt and ALTUGLAS™ CR-8 Super Matt grades provide a low gloss, soft touch finish. ALTUGLAS™ CR-8 Super Matt resin also provides greater chemical resistance.

Smooth matt grades

ALTUGLAS™ HFI-10 Smooth Matt grade provides a low gloss, amazing soft touch experience.

Frosted grades

The ALTUGLAS™ Frosted grades provide a low gloss, frosted finish. This range provides grades with various flow and impact levels.

PMMA Typical and Specific Colors - ALTUGLAS™ Acrylic Resins

High Gloss Piano Black

Clear Red and Amber

Smoke Grey

PMMA Ultra UV Resistance - ALTUGLAS™ Acrylic Resins

ALTUGLAS™ HFI-15 UVP10

ALTUGLAS™ HFI-15 UVP10 grade is proven to completely block UV rays down to a thickness of 150 microns, which helps to protect ABS and PVC substrates from UV damage.

ALTUGLAS™ MI-4CE UVP10

This grade is proven to completely block UV rays down to a thickness of 400 microns, which helps to protect ABS and PVC substrates from UV damage.

Contact us for technical data sheet, sds & more information

For more information on products, innovations, expertise and other services available for UNITED DELTA TRADING PTE LTD, please contact us at +65-6565-8787 , +65-6777-0152 or email us at marketing@uniteddeltasg.com , visit uniteddeltasg.com.





Chemical Resistance

Chemical resistant PMMA combines the advantages of acrylic with the properties to stand up against damaging agents to extend material lifespan. We offer glossy and textured versions to meet your design needs.

Product	Generic Name	Melt Mass-Flow Rate (MFR) (g/10 min)	Vicat Softening Temperature (°C)
ALTUGLAS™ HT121 LPL	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	
ALTUGLAS™ HT121 RED	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 116 (B (50N), 50°C/h)
ALTUGLAS™ MI-4 CE UVP10	Acrylic, Polymethyl Methacrylate	1.6 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)
ALTUGLAS™ MI-4T	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 102 (B (50N), 50°C/h)
ALTUGLAS™ MI-4T White	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 102 (B (50N), 50°C/h)
ALTUGLAS™ MI-757T	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)
ALTUGLAS™ MI-7T	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)
ALTUGLAS™ MI-7T White	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)
ALTUGLAS™ Reflect M31	Acrylic, Polymethyl Methacrylate	1.1 (230°C/3.8 kg)	> 102 (B (50N), 50°C/h)
ALTUGLAS™ R-Life V825T Black MR35	Acrylic, Polymethyl Methacrylate	2.4 (230°C/3.8 kg)	107 (B (50N), 50°C/h)
ALTUGLAS™ R-Life V825T CLR CR50	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	107 (B (50N), 50°C/h)
ALTUGLAS™ R-Life V825T RED CR50	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	107 (B (50N), 50°C/h)
ALTUGLAS™ R-Life VML CLR CR50	Acrylic, Polymethyl Methacrylate	14 (230°C/3.8 kg)	> 91.0 (B (50N), 50°C/h)
ALTUGLAS™ R-Life VML CLR CR80	Acrylic, Polymethyl Methacrylate	21 (230°C/3.8 kg)	> 88.0 (B (50N), 50°C/h)
ALTUGLAS™ R-Life VML-H CR50	Acrylic, Polymethyl Methacrylate	18 (230°C/3.8 kg)	> 88.0 (B (50N), 50°C/h)
ALTUGLAS™ SG10	Acrylic, Polymethyl Methacrylate	4.5 (230°C/3.8 kg)	90.0 (B (50N), 50°C/h)
ALTUGLAS™ SG7	Acrylic, Polymethyl Methacrylate	13 (230°C/3.8 kg)	90.0 (B (50N), 50°C/h)
ALTUGLAS™ V046	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 99.0 (B (50N), 50°C/h)
ALTUGLAS™ V046 White	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 99.0 (B (50N), 50°C/h)
ALTUGLAS™ V052I	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 102 (B (50N), 50°C/h)

Product	Generic Name	Melt Mass-Flow Rate (MFR) (g/10 min)	Vicat Softening Temperature (°C)
ALTUGLAS™ V052I Black	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 102 (B (50N), 50°C/h)
ALTUGLAS™ V129 UVT	Acrylic, Polymethyl Methacrylate	27 (230°C/3.8 kg)	> 88.0 (B (50N), 50°C/h)
ALTUGLAS™ V825T	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	108 (B (50N), 50°C/h)
ALTUGLAS™ V825T Amber	Acrylic, Polymethyl Methacrylate	2.8 (230°C/3.8 kg)	108 (B (50N), 50°C/h)
ALTUGLAS™ V825T Black	Acrylic, Polymethyl Methacrylate	2.8 (230°C/3.8 kg)	108 (B (50N), 50°C/h)
ALTUGLAS™ V825T Grey	Acrylic, Polymethyl Methacrylate	2.8 (230°C/3.8 kg)	108 (B (50N), 50°C/h)
ALTUGLAS™ V825T LPL	Acrylic, Polymethyl Methacrylate	2.8 (230°C/3.8 kg)	108 (B (50N), 50°C/h)
ALTUGLAS™ V825T RED	Acrylic, Polymethyl Methacrylate	2.8 (230°C/3.8 kg)	108 (B (50N), 50°C/h)
ALTUGLAS™ V920	Acrylic, Polymethyl Methacrylate	8.0 (230°C/3.8 kg)	> 99.0 (B (50N), 50°C/h)
ALTUGLAS™ V920T	Acrylic, Polymethyl Methacrylate	6.0 (230°C/3.8 kg)	> 101 (B (50N), 50°C/h)
ALTUGLAS™ V920T Frosted 18	Acrylic, Polymethyl Methacrylate	3.5 (230°C/3.8 kg)	> 101 (B (50N), 50°C/h)
ALTUGLAS™ V920T NA	Acrylic, Polymethyl Methacrylate	6.0 (230°C/3.8 kg)	> 101 (B (50N), 50°C/h)
ALTUGLAS™ V920TL White	Acrylic, Polymethyl Methacrylate	6.0 (230°C/3.8 kg)	> 101 (B (50N), 50°C/h)
ALTUGLAS™ VM	Acrylic, Polymethyl Methacrylate	14 (230°C/3.8 kg)	> 88.0 (B (50N), 50°C/h)
ALTUGLAS™ VM White	Acrylic, Polymethyl Methacrylate	14 (230°C/3.8 kg)	
ALTUGLAS™ VML	Acrylic, Polymethyl Methacrylate	14 (230°C/3.8 kg)	> 88.0 (B (50N), 50°C/h)
ALTUGLAS™ VSUVT	Acrylic, Polymethyl Methacrylate	27 (230°C/3.8 kg)	> 88.0 (B (50N), 50°C/h)
ALTUGLAS™ CR 8	Acrylic, Polymethyl Methacrylate	0.60 (230°C/3.8 kg)	> 101 (B (50N), 50°C/h)
ALTUGLAS™ CR 8 Supermatt	Acrylic, Polymethyl Methacrylate	0.50 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse 101 RED	Acrylic, Polymethyl Methacrylate	3.5 (230°C/3.8 kg)	103 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse 102	Acrylic, Polymethyl Methacrylate	0.80 (230°C/3.8 kg)	> 96.0 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse 302 Grey	Acrylic, Polymethyl Methacrylate	1.2 (230°C/3.8 kg)	> 97.0 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse 502	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse 701	Acrylic, Polymethyl Methacrylate	1.5 (230°C/3.8 kg)	> 98.0 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse 91	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 106 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse™ 101	Acrylic, Polymethyl Methacrylate	3.5 (230°C/3.8 kg)	103 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse™ 301	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 100 (B (50N), 50°C/h)

General Purpose

ALTUGLAS™ acrylic resins offer exceptional impact resistance combined with PMMA optical properties for a high-quality look. Available in variations to match the desired flow and thermal resistance levels.





Heat Resistance

Our pure ALTUGLAS™ acrylic resin for injection and extrusion exhibits the greatest heat resistance on the market. It is the material of choice for optical and aesthetical applications requiring thermal resistance combined with outstanding UV (AMECA certification) and scratch resistance.

Product	Generic Name	Melt Mass-Flow Rate (MFR) (g/10 min)	Vicat Softening Temperature (°C)
ALTUGLAS™ Diffuse™ 302	Acrylic, Polymethyl Methacrylate	1.2 (230°C/3.8 kg)	> 97.0 (B (50N), 50°C/h)
ALTUGLAS™ Diffuse™ 501	Acrylic, Polymethyl Methacrylate	1.2 (230°C/3.8 kg)	> 94.0 (B (50N), 50°C/h)
ALTUGLAS™ DRT	Acrylic, Polymethyl Methacrylate	0.90 (230°C/3.8 kg)	> 98.0 (B (50N))
ALTUGLAS™ DRT Frosted 18	Acrylic, Polymethyl Methacrylate	0.70 (230°C/3.8 kg)	> 98.0 (B (50N), 50°C/h)
ALTUGLAS™ DRT Matt	Acrylic, Polymethyl Methacrylate	1.6 (230°C/3.8 kg)	> 95.0 (B (50N), 50°C/h)
ALTUGLAS™ DRT White	Acrylic, Polymethyl Methacrylate	0.70 (230°C/3.8 kg)	> 98.0 (B (50N), 50°C/h)
ALTUGLAS™ HCR 3	Acrylic, Polymethyl Methacrylate	0.60 (230°C/3.8 kg)	> 106 (B (50N), 50°C/h)
ALTUGLAS™ HFI 15	Acrylic, Polymethyl Methacrylate	1.5 (230°C/3.8 kg)	> 94.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-10	Acrylic, Polymethyl Methacrylate	3.3 (230°C/3.8 kg)	> 90.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-10 Smooth Matt	Acrylic, Polymethyl Methacrylate	3.0 (230°C/3.8 kg)	> 89.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-10 Super Matt	Acrylic, Polymethyl Methacrylate	1.6 (230°C/3.8 kg)	> 93.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-1061	Acrylic, Polymethyl Methacrylate	3.3 (230°C/3.8 kg)	> 90.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-15 UVP10	Acrylic, Polymethyl Methacrylate	1.5 (230°C/3.8 kg)	> 94.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-7	Acrylic, Polymethyl Methacrylate	10 (230°C/3.8 kg)	> 90.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-7 Frosted 18	Acrylic, Polymethyl Methacrylate	5.3 (230°C/3.8 kg)	> 96.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-7 Grey	Acrylic, Polymethyl Methacrylate	10 (230°C/3.8 kg)	> 90.0 (B (50N), 50°C/h)
ALTUGLAS™ HFI-7 White	Acrylic, Polymethyl Methacrylate	10 (230°C/3.8 kg)	> 90.0 (B (50N), 50°C/h)
ALTUGLAS™ HT 121	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 116 (B (50N), 50°C/h)
ALTUGLAS™ HT121 Black	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 116 (B (50N), 50°C/h)
ALTUGLAS™ HT121 Grey	Acrylic, Polymethyl Methacrylate	2.0 (230°C/3.8 kg)	> 116 (B (50N), 50°C/h)

Contact us for technical data sheet, sds & more information

For more information on products, innovations, expertise and other services available for UNITED DELTA TRADING PTE LTD, please contact us at +65-6565-8787, +65-6777-0152 or email us at marketing@uniteddeltasg.com, visit uniteddeltasg.com.





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