

Technical Data

Product Description

Altuglas® HT 121 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Typical application: Automotive. Primary characteristic: flame rated.

General

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Literature <sup>1</sup>	<ul style="list-style-type: none"> <li>Brochure - Altuglas® - lighting solutions for your innovations (English)</li> <li>Brochure - Altuglas® - Product Range (English)</li> <li>Brochure - Altuglas® - Specialty Grades (English)</li> <li>Brochure - Altuglas® for cosmetic applications (English)</li> <li>Brochure - Altuglas® Resins - Asia (English)</li> <li>Processing - Injection Molding Resins (English)</li> <li>Technical Datasheet (English)</li> </ul>
UL Yellow Card <sup>2</sup>	<ul style="list-style-type: none"> <li>E106635-218389</li> <li>E39437-101664166</li> </ul>
Search for UL Yellow Card	<ul style="list-style-type: none"> <li>Altuglas International of Arkema Inc.</li> <li>Altuglas®</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Asia Pacific</li> <li>Europe</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Granules</li> </ul>
Multi-Point Data	<ul style="list-style-type: none"> <li>Specific Volume vs Temperature (ISO 11403-2)</li> <li>Viscosity vs. Shear Rate (ISO 11403-2)</li> </ul>

Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0 g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 to 0.60 %	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield, 23°C)	70.0 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0 %	ISO 527-2
Flexural Modulus (23°C)	3450 MPa	ISO 178
Flexural Stress (23°C)	103 MPa	ISO 178
Compressive Stress (23°C)	117 MPa	ISO 604
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 kJ/m <sup>2</sup>	ISO 179/2C
Charpy Unnotched Impact Strength (23°C)	11 kJ/m <sup>2</sup>	ISO 179/2U
Notched Izod Impact Strength (23°C)	1.8 kJ/m <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	102	ASTM D785
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	119 °C	ISO 75-2/B
1.8 MPa, Unannealed	110 °C	ISO 75-2/A
Vicat Softening Temperature	121 °C	ISO 306/B
CLTE - Flow (-30 to 23°C)	6.5E-5 cm/cm/°C	ASTM D696
Specific Heat	2090 J/kg/°C	
Thermal Conductivity (23°C)	0.22 W/m/K	
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	> 1.0E+14 ohms	ASTM D257
Volume Resistivity	> 1.0E+15 ohms·cm	ASTM D257
Dielectric Strength	20 kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.70	ASTM D150
Dissipation Factor (1 MHz)	0.040	ASTM D150



# Altuglas® HT 121

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

# PROSPECTOR®

www.ulprospector.com

Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94
Optical	Nominal Value Unit	Test Method
Refractive Index <sup>4</sup>	1.490	ISO 489
Light Transmittance	92.0 %	ASTM D1003
Haze	0.500 %	ASTM D1003
Injection	Nominal Value Unit	
Drying Temperature	90 to 100 °C	
Drying Time	4.0 to 6.0 hr	
Processing (Melt) Temp	240 to 250 °C	
Mold Temperature	80 to 90 °C	

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> Method B



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[www.ulprospector.com](http://www.ulprospector.com)

### Where to Buy

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#### Supplier

**Altuglas International of Arkema Inc.**

Bristol, PA USA

Telephone: 215-826-2600

Web: <http://www.altuglasint.com/en/>

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#### Distributor

**RESINEX Group**

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

