

## Technical Data

### Product Description

Altuglas® V040 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Brochure - Altuglas® Resins - Asia (English)</a> • <a href="#">Processing - Injection Molding Resins (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E228285-229899</a> • <a href="#">E39437-231407</a>
Search for UL Yellow Card	• <a href="#">Altuglas International of Arkema Inc.</a> • <a href="#">Altuglas®</a>
Availability	• Asia Pacific • Europe

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.19 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.5 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60 %	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	74.0 MPa	ASTM D638
Tensile Elongation (Break)	6.0 %	ASTM D638
Flexural Modulus	3240 MPa	ASTM D790
Flexural Strength	107 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	2.0 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	11 kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact (Area)	1.40 kJ/m <sup>2</sup>	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	99	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	110 °C	
1.8 MPa, Unannealed	101 °C	
Vicat Softening Temperature		
--	117 °C	ASTM D1525 <sup>4</sup>
--	108 °C	ASTM D1525 <sup>5</sup>
CLTE - Flow	6.5E-5 cm/cm/°C	ASTM D696
Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94
Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	ASTM D542
Light Transmittance	92.0 %	ASTM D1003
Haze	0.500 %	ASTM D1003

### 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> Rate A (50°C/h), Loading 1 (10 N)

<sup>5</sup> Rate A (50°C/h), Loading 2 (50 N)

## Altuglas® V040

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

# PROSPECTOR®

[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

