

Altuglas® CR 8

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

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Technical Data

Product Description

Altuglas® CR 8 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

General

Material Status	• Commercial: Active
Literature ¹	• Brochure - Altuglas® - Product Range (English) • Brochure - Altuglas® - Specialty Grades (English) • Processing - Injection Molding Resins (English)
Search for UL Yellow Card	• Altuglas International of Arkema Inc. • Altuglas®
Availability	• Asia Pacific • Europe

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.16	1.16 g/cm ³	ASTM D792
--	1.16 g/cm ³	1.16 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.70 g/10 min	0.70 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow	2.0E-3 to 8.0E-3 in/in	0.20 to 0.80 %	ASTM D955
Water Absorption			ASTM D570 ISO 62
Equilibrium, 73°F (23°C), 50% RH	0.34 %	0.34 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	6530 psi	45.0 MPa	ASTM D638 ISO 527-2
Tensile Elongation (Break)	35 %	35 %	ASTM D638 ISO 527-2
Flexural Modulus	319000 psi	2200 MPa	ASTM D790 ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	21 ft·lb/in ²	45 kJ/m ²	ISO 179
Notched Izod Impact (Area)	2.14 ft·lb/in ²	4.50 kJ/m ²	ASTM D256
Notched Izod Impact Strength	2.1 ft·lb/in ²	4.5 kJ/m ²	ISO 180/1A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	74	74	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	194 °F	90.0 °C	ASTM D648 ISO 75-2/A
Vicat Softening Temperature	214 °F	101 °C	ASTM D1525 ISO 306/B50
CLTE - Flow	5.0E-5 in/in/°F	9.0E-5 cm/cm/°C	ASTM D696
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Refractive Index			
--	1.490	1.490	ASTM D542
-- ³	1.490	1.490	ISO 489
Transmittance	91.0 %	91.0 %	ASTM D1003
Haze	1.50 %	1.50 %	ASTM D1003

Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ Method B



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Where to Buy

Supplier

Altuglas International of Arkema Inc.

Bristol, PA USA

Telephone: 215-826-2600

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

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

