# Plexiglas® MI7C-56503RB

### Polymethyl Methacrylate Acrylic

#### Altuglas International of Arkema Inc.

#### Message:

Plexiglas<sup>®</sup> MI7C-56503RB is an impact modified thermoplastic acrylic resin formulated for injection molding. It is a jet black, high gloss, opaque resin that has high heat resistance, high melt flow and provides 7 times the impact resistance of standard acrylics while maintaining excellent optical properties. It offers an excellent balance between melt flow and increased resistance to breakage, while providing weatherability superior to that provided by other high-impact plastics. Moldflow simulation data is available.

General Information			
Additive	Impact Modifier		
Features	BPA Free		
	Good Impact Resistance		
	Good Weather Resistance		
	High Flow		
	High Gloss		
	High Heat Resistance		
	Impact Modified		
Uses	Automotive Exterior Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength (Break)	51.7	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength (Yield)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup>			ASTM D648
0.45 MPa, Annealed	100	°C	
1.8 MPa, Annealed	95.0	°C	
Vicat Softening Temperature			
	108	°C	ASTM D1525 <sup>2</sup>
	96.1	°C	ASTM D1525 <sup>3</sup>
Thermal Conductivity	0.20	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating	НВ		UL 94
Additional Information	Nominal Value		Test Method
ASTM Classification	PMMA 0241V3		ASTM D788
NOTE			
1.	Annealing cycle: 4hrs @ 176°F		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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#### Recommended distributors for this material

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