Maxiglas® MG820

Polymethyl Methacrylate Acrylic

Maxiglas Corporation

Message:

Maxiglas® is a continuousl mass polymerization acrylic pellet that has outstanding optical properties, excellent weather resistance, uniform color and impact resistance. It has exceptional freedom from war page, cracks, scratches, blisters, voids, foreign matter, and other defects which may affect appearance or serviceability.
Applications:
Extruded sheets for signage, displays and building material
Automotive parts such as tail lamps, meter covers and sun visors
General sundries such as tableware, kitchenware, giftware and bathroom accessories
Optical lenses such as sunglasses, reading glasses and camera lenses
Light guide panels for LCD displays

General Information	
Features	Good Weather Resistance
	Opticals
Uses	Automotive Applications
	Automotive Backlights
	Automotive Interior Parts
	Bathroom Accessories
	Building Materials
	Decorative Displays
	Displays
	Kitchenware
	LCD Applications
	Lighting Applications
	Optical Applications
	Toys
Forms	Pellets
Processing Method	Compression Molding
	Extrusion Blow Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	105		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength	75.5	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	3430	MPa	ASTM D790
Flexural Strength	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	104	°C	ASTM D648
Vicat Softening Temperature	118	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (3000 µm)	93.0	%	ASTM D1003
Haze (3000 µm)	0.30	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Foreign Material [1]	< 0.0500	mm^2	
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	210 to 250	°C	
Middle Temperature	210 to 250	°C	
Front Temperature	210 to 250	°C	
Mold Temperature	60.0 to 75.0	°C	
Injection Pressure	2.76 to 5.52	MPa	
Extrusion	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	4.0	hr	
NOTE			
1.	Condition: 50g		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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WECHAT