

# Maxiglas® MG555

Polymethyl Methacrylate Acrylic

Maxiglas Corporation

Message:

Maxiglas® is a continuous mass polymerization acrylic pellet that has outstanding optical properties, excellent weather resistance, uniform color and impact resistance. It has exceptional freedom from warpage, 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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	66.7	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength	96.1	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)	92.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°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 <sup>1</sup>	< 0.0500	mm <sup>2</sup>	
NOTE			

1. Condition: 50g

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#### Recommended distributors for this material

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