No-painting Auto-used plastic





PMMA Alloy M1600

PRODUCT DESCRIPTION:

M1600 is a PMMA alloy with high gloss, high toughness, super high weather resistance and excellent anti-scatch performance.

FEATURES:

APPLICATION:

High gloss

• Auto Grille

High toughness

• Rear view mirror housing

Properties ¹	Standard	Condition	Unit	Typical Value ²
Physical				
Density	ISO 1183	g/cm ³	23°C	1.13
Mold Shrinkage	ISO 294	23°C, 48hr	%	0.4 - 0.6
Melt Flow Rate	ISO 1133	220°C, 10kg	g/10 minutes	5
Mechanical				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	48
Flexural Strength ³	ISO 178	2mm/min	MPa	57
Flexural Modulus	ISO 178	2mm/min	MPa	1900
Notched Charpy Impact	ISO 179	4J, 23°C	kJ/m ²	9
Notched Charpy Impact	ISO 179	4J, -30°C	kJ/m ²	2.5
Rockwell Hardness	ISO 2039	23°C	R-scale	108
Thermal				
Heat Deflection Temperature ⁴	ISO 75	120°C/hr, 1.80MPa	°C	80
Vicat Softening Temperature	ISO 306	50°C/hr, 5kg	°C	96
Other Properties				
Flammability	UL-94	Class	1.6mm	НВ
Volume resistivity	IEC 60093	Ohm-cm	/	>1.E+15
Surface resistivity	IEC 60093	Ohm	/	>1.E+15

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Processing Parameters		Value	Unit
Pre-treatment			
Drying Temperature		80 ~ 90	°C
Drying Time		3 ~ 4	hour
Maximum moisture content		≤0.02	%
General Guidelines ¹			
	Rear	220 ~ 240	°C
Barrel Temperature	Middle	230 ~ 250	°C
	Front	240 ~ 260	°C
Nozzle		240 ~ 260	°C
Melt Temperature		240 ~ 260	°C
Mold Temperature		60 ~ 90	°C
Back Pressure		1 ~ 5	MPa
Screw Speed		30 ~ 50	rpm

Note1:

- 1. Values are measured at 23°C and in RH of 50% on injection molded specimens.
- 2. Typical values for uncolored products, not specifications, and may vary slightly with different colors.
- 3. Flexural strength is tested with fixed deflection.
- 4. HDT: specimens are unannealed.

Note2:

1. The general guidelines are only for reference. Exact settings have to follow the product and machine conditions.

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