

Color-in™ MA300-M

Polymethyl Methacrylate Acrylic

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

MA300-M is injection a molding aesthetic resin.MA300-M has many properties:(1)anti-scratch(2)high gloss(G60°>85)(3)bright color(4) UV stability(5)light transmittance(6)recycling.MA300-M is mainly used in appearance items of household appliance,etc.

| General Information | | | |
|---|-----------------------------|-------------------|-------------------------|
| Features | Good UV Resistance | | |
| | High Gloss | | |
| | High Light Transmission | | |
| | Pleasing Surface Appearance | | |
| | Recyclable Material | | |
| | Scratch Resistant | | |
| Uses | Appliances | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.11 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 20 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.30 to 0.60 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 115 | | ASTM D785 |
| Pencil Hardness - 500g | H | | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 55.0 | MPa | ASTM D638 |
| Flexural Modulus | 2300 | MPa | ASTM D790 |
| Flexural Strength | 70.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.20 mm) | 80 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 83.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 95.0 | °C | ASTM D1525 ¹ |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+15 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+15 | ohms·cm | IEC 60093 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.60 mm) | HB | | UL 94 |

| Optical | Nominal Value | Test Method |
|---------------|---------------|-------------|
| Gardner Gloss | > 85 | ASTM D523 |

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 80.0 to 85.0 | °C |
| Drying Time | 3.0 to 4.0 | hr |
| Suggested Max Moisture | 0.050 | % |
| Rear Temperature | 190 to 210 | °C |
| Middle Temperature | 210 to 220 | °C |
| Front Temperature | 225 to 235 | °C |
| Nozzle Temperature | 225 to 230 | °C |
| Processing (Melt) Temp | 220 to 235 | °C |
| Mold Temperature | 60.0 to 80.0 | °C |
| Back Pressure | 1.00 to 5.00 | MPa |
| Screw Speed | 30 to 50 | rpm |

| NOTE | | |
|------|------------------|--|
| 1. | Rate B (120°C/h) | |

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