

# LG PMMA HP202

Polymethyl Methacrylate Acrylic  
LG MMA Corp.

Message:

LG PMMA HP202 is a Polymethyl Methacrylate Acrylic material. It is available in Asia Pacific, Europe, Latin America, or North America.  
Important attributes of LG PMMA HP202 are:  
Flame Rated  
RoHS Compliant  
Typical applications include:  
Automotive  
Optics/Lenses

| General Information                                     |                      |                   |                         |
|---------------------------------------------------------|----------------------|-------------------|-------------------------|
| Uses                                                    | Optical Applications |                   |                         |
| RoHS Compliance                                         | RoHS Compliant       |                   |                         |
| Physical                                                | Nominal Value        | Unit              | Test Method             |
| Specific Gravity                                        | 1.18                 | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)                | 2.0                  | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.20 to 0.60         | %                 | ASTM D955               |
| Water Absorption (24 hr)                                | 0.30                 | %                 | ASTM D570               |
| Hardness                                                | Nominal Value        | Unit              | Test Method             |
| Rockwell Hardness (M-Scale)                             | 98                   |                   | ASTM D785               |
| Mechanical                                              | Nominal Value        | Unit              | Test Method             |
| Tensile Strength (Yield)                                | 68.6                 | MPa               | ASTM D638               |
| Tensile Elongation (Yield)                              | 15                   | %                 | ASTM D638               |
| Flexural Modulus                                        | 3330                 | MPa               | ASTM D790               |
| Flexural Strength (Yield)                               | 137                  | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value        | Unit              | Test Method             |
| Charpy Notched Impact Strength                          | 1.4                  | kJ/m <sup>2</sup> | ISO 179/1eA             |
| Charpy Unnotched Impact Strength                        | 15                   | kJ/m <sup>2</sup> | ISO 179/1eU             |
| Notched Izod Impact (Area)                              | 1.50                 | kJ/m <sup>2</sup> | ASTM D256               |
| Thermal                                                 | Nominal Value        | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 104                  | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 117                  | °C                | ASTM D1525 <sup>1</sup> |
| CLTE - Flow                                             | 6.0E-5               | cm/cm/°C          | ASTM D696               |
| Electrical                                              | Nominal Value        | Unit              | Test Method             |
| Volume Resistivity                                      | > 1.0E+15            | ohms · cm         | ASTM D257               |
| Dielectric Strength <sup>2</sup>                        | 20                   | kV/mm             | ASTM D149               |
| Dielectric Constant (60 Hz)                             | 3.10                 |                   | ASTM D150               |
| Dissipation Factor (60 Hz)                              | 0.050                |                   | ASTM D150               |
| Flammability                                            | Nominal Value        | Unit              | Test Method             |

|                         |                  |      |             |
|-------------------------|------------------|------|-------------|
| Flame Rating            | HB               |      | UL 94       |
| Optical                 | Nominal Value    | Unit | Test Method |
| Refractive Index        | 1.490            |      | ASTM D542   |
| Transmittance (3200 μm) | 92.0             | %    | ASTM D1003  |
| Haze (3200 μm)          | < 0.10           | %    | ASTM D1003  |
| NOTE                    |                  |      |             |
| 1.                      | Loading 1 (10 N) |      |             |
| 2.                      | 4000 V/sec       |      |             |

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