

# LG ABS MP211

Acrylonitrile Butadiene Styrene  
LG Chem Ltd.

Message:

LG ABS MP211 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of LG ABS MP211 are:

- flame retardant/rated flame
- high liquidity

Typical application areas include:

- electrical appliances
- Automotive Industry
- Handle

| General Information                              |                                             |                |             |
|--------------------------------------------------|---------------------------------------------|----------------|-------------|
| UL YellowCard                                    | E67171-248386                               | E248280-462763 |             |
| Features                                         | Electroplateable                            |                |             |
|                                                  | High liquidity                              |                |             |
| Uses                                             | Handle                                      |                |             |
|                                                  | Home appliance components                   |                |             |
| Processing Method                                | Injection molding                           |                |             |
| Multi-Point Data                                 | Specific Heat vs. Temperature (ISO 11403-2) |                |             |
| Physical                                         | Nominal Value                               | Unit           | Test Method |
| Specific Gravity                                 | 1.05                                        | g/cm³          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)        | 27                                          | g/10 min       | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)               | 0.40 - 0.70                                 | %              | ASTM D955   |
| Dimensional Stability                            | 0.0                                         | %              | ASTM D1042  |
| Hardness                                         | Nominal Value                               | Unit           | Test Method |
| Rockwell Hardness (R-Scale)                      | 105                                         |                | ASTM D785   |
| Mechanical                                       | Nominal Value                               | Unit           | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)   | 43.1                                        | MPa            | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | 40                                          | %              | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.20 mm)          | 2350                                        | MPa            | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)         | 70.6                                        | MPa            | ASTM D790   |
| Impact                                           | Nominal Value                               | Unit           | Test Method |
| Notched Izod Impact                              |                                             |                | ASTM D256   |
| -30°C, 3.20 mm                                   | 160                                         | J/m            | ASTM D256   |
| -30°C, 6.40 mm                                   | 150                                         | J/m            | ASTM D256   |
| 23°C, 3.20 mm                                    | 340                                         | J/m            | ASTM D256   |
| 23°C, 6.40 mm                                    | 300                                         | J/m            | ASTM D256   |

| Thermal                               | Nominal Value | Unit      | Test Method |
|---------------------------------------|---------------|-----------|-------------|
| Deflection Temperature Under Load     |               |           | ASTM D648   |
| 0.45 MPa, unannealed, 6.40mm          | 95.0          | °C        | ASTM D648   |
| 1.8 MPa, unannealed, 6.40mm           | 87.0          | °C        | ASTM D648   |
| Vicat Softening Temperature           | 95.0          | °C        | ASTM D1525  |
| RTI Elec                              |               |           | UL 746      |
| 1.50 mm                               | 60.0          | °C        | UL 746      |
| 3.00 mm                               | 60.0          | °C        | UL 746      |
| RTI Imp                               |               |           | UL 746      |
| 1.50 mm                               | 60.0          | °C        | UL 746      |
| 3.00 mm                               | 60.0          | °C        | UL 746      |
| RTI                                   |               |           | UL 746      |
| 1.50 mm                               | 60.0          | °C        | UL 746      |
| 3.00 mm                               | 60.0          | °C        | UL 746      |
| Electrical                            | Nominal Value | Unit      | Test Method |
| Volume Resistivity                    | 1.0E+14       | ohms · cm | ASTM D257   |
| Dielectric Strength                   | 28            | kV/mm     | ASTM D149   |
| Arc Resistance                        | PLC 6         |           | ASTM D495   |
| Comparative Tracking Index (CTI)      | PLC 0         |           | UL 746      |
| High Amp Arc Ignition (HAI)           |               |           | UL 746      |
| 1.50 mm                               | PLC 0         |           | UL 746      |
| 3.00 mm                               | PLC 0         |           | UL 746      |
| High Voltage Arc Tracking Rate (HVTR) | PLC 2         |           | UL 746      |
| Hot-wire Ignition (HWI)               |               |           | UL 746      |
| 1.50 mm                               | PLC 3         |           | UL 746      |
| 3.00 mm                               | PLC 3         |           | UL 746      |
| Flammability                          | Nominal Value | Unit      | Test Method |
| Flame Rating                          |               |           | UL 94       |
| 1.50 mm, ALL                          | HB            |           | UL 94       |
| 3.00 mm, ALL                          | HB            |           | UL 94       |
| Injection                             | Nominal Value | Unit      |             |
| Drying Temperature                    | 70.0 - 80.0   | °C        |             |
| Drying Time                           | 3.0 - 4.0     | hr        |             |
| Rear Temperature                      | 190 - 210     | °C        |             |
| Middle Temperature                    | 200 - 220     | °C        |             |
| Front Temperature                     | 210 - 230     | °C        |             |
| Nozzle Temperature                    | 210 - 230     | °C        |             |
| Processing (Melt) Temp                | 210 - 230     | °C        |             |
| Mold Temperature                      | 40.0 - 60.0   | °C        |             |
| Back Pressure                         | 68.6 - 88.3   | MPa       |             |
| Screw Speed                           | < 80          | rpm       |             |
| Injection instructions                |               |           |             |

Minimum Moisture Content: 0.01%

NOTE

|    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |

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