

# LG ABS LG749W

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

## Message:

Description  
Low Gloss, Heat Resistance  
Applications  
Automotive Interior Housing (Glove Cover, Door S/W Housing Etc)

| General Information                              |                                 |                   |             |
|--------------------------------------------------|---------------------------------|-------------------|-------------|
| Features                                         | Gloss, low                      |                   |             |
|                                                  | Heat resistance, high           |                   |             |
| Uses                                             | Application in Automobile Field |                   |             |
|                                                  | Car interior parts              |                   |             |
|                                                  | Shell                           |                   |             |
| Processing Method                                | Injection molding               |                   |             |
| Physical                                         | Nominal Value                   | Unit              | Test Method |
| Specific Gravity                                 | 1.04                            | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)        | 6.0                             | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)               | 0.40 - 0.70                     | %                 | ASTM D955   |
| Hardness                                         | Nominal Value                   | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                      | 106                             |                   | ASTM D785   |
| Mechanical                                       | Nominal Value                   | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)   | 47.1                            | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | 15                              | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.20 mm)          | 2350                            | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)         | 73.5                            | MPa               | ASTM D790   |
| Impact                                           | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact                              |                                 |                   | ASTM D256   |
| -30°C, 3.20 mm                                   | 98                              | J/m               | ASTM D256   |
| -30°C, 6.40 mm                                   | 88                              | J/m               | ASTM D256   |
| 23°C, 3.20 mm                                    | 260                             | J/m               | ASTM D256   |
| 23°C, 6.40 mm                                    | 240                             | J/m               | ASTM D256   |
| Thermal                                          | Nominal Value                   | Unit              | Test Method |
| Deflection Temperature Under Load                |                                 |                   | ASTM D648   |
| 0.45 MPa, unannealed, 6.40mm                     | 100                             | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 6.40mm                      | 92.0                            | °C                | ASTM D648   |
| Vicat Softening Temperature                      | 100                             | °C                | ASTM D1525  |

| Optical     | Nominal Value | Test Method |
|-------------|---------------|-------------|
| Gloss (45°) | 30            | ASTM D2457  |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 80.0 - 90.0   | °C   |
| Drying Time            | 3.0 - 4.0     | hr   |
| Rear Temperature       | 180 - 200     | °C   |
| Middle Temperature     | 200 - 220     | °C   |
| Front Temperature      | 220 - 230     | °C   |
| Nozzle Temperature     | 220 - 230     | °C   |
| Processing (Melt) Temp | 190 - 210     | °C   |
| Mold Temperature       | 40.0 - 60.0   | °C   |
| Back Pressure          | 0.981 - 2.94  | MPa  |

|                                  |  |  |
|----------------------------------|--|--|
| Injection instructions           |  |  |
| Minimum Moisture Content: <0.07% |  |  |

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

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