

ABS ER459

ABS

LG Chem

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 16 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2350 | MPa | ISO 527 |
| Yield stress | 50 | MPa | ISO 527 |
| Yield strain | 5 | % | ISO 527 |
| Strain at break | 10 | % | ISO 527 |
| Charpy notched impact strength, +23°C | 20 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 7 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 20 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 7 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| Rockwell hardness | R 107 | - | ISO 2039-2 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 84 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 91 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 102 | °C | ISO 306 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1050 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 70 - 80 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Melt temperature | 210 - 240 | °C | - |
| Mold temperature | 40 - 70 | °C | - |
| Nozzle temperature | 200 - 230 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.5 - 1.5 | MPa | - |

Characteristics**Processing**

Injection Molding

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America