

# LG ABS RS800M

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description  
High Modulus, Chemical Resistnace to HCFC  
Application  
Refrigerator Inner Liner

| General Information                             |                          |                   |                         |
|-------------------------------------------------|--------------------------|-------------------|-------------------------|
| UL YellowCard                                   | E67171-248402            | E248280-100041087 |                         |
| Features                                        | Good chemical resistance |                   |                         |
| Uses                                            | Electrical appliances    |                   |                         |
| Processing Method                               | Extrusion                |                   |                         |
| 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)                     | 100                      |                   | ASTM D785               |
| Mechanical                                      | Nominal Value            | Unit              | Test Method             |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)  | 44.1                     | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup>                 |                          |                   | ASTM D638               |
| Yield, 3.20mm                                   | > 5.0                    | %                 | ASTM D638               |
| Fracture, 3.20mm                                | 35                       | %                 | ASTM D638               |
| Flexural Modulus <sup>3</sup> (3.20 mm)         | 2400                     | MPa               | ASTM D790               |
| Flexural Strength <sup>4</sup> (Yield, 3.20 mm) | 72.6                     | MPa               | ASTM D790               |
| Impact                                          | Nominal Value            | Unit              | Test Method             |
| Notched Izod Impact                             |                          |                   | ASTM D256               |
| 23°C, 3.20 mm                                   | 390                      | J/m               | ASTM D256               |
| 23°C, 6.40 mm                                   | 340                      | J/m               | ASTM D256               |
| Thermal                                         | Nominal Value            | Unit              | Test Method             |
| Deflection Temperature Under Load               |                          |                   | ASTM D648               |
| 0.45 MPa, unannealed, 6.40mm <sup>5</sup>       | 96.0                     | °C                | ASTM D648               |
| 0.45 MPa, unannealed, 6.40mm <sup>6</sup>       | 89.0                     | °C                | ASTM D648               |
| Vicat Softening Temperature                     | 96.0                     | °C                | ASTM D1525 <sup>7</sup> |
| Flammability                                    | Nominal Value            | Test Method       |                         |
| Flame Rating                                    | HB                       | UL 94             |                         |
| Extrusion                                       | Nominal Value            | Unit              |                         |
| Drying Temperature                              | 70.0 - 80.0              | °C                |                         |

|                        |           |    |
|------------------------|-----------|----|
| Drying Time            | 3.0 - 4.0 | hr |
| Suggested Max Moisture | < 0.010   | %  |
| Cylinder Zone 1 Temp.  | 180 - 210 | °C |
| Cylinder Zone 2 Temp.  | 190 - 230 | °C |
| Cylinder Zone 3 Temp.  | 200 - 250 | °C |
| Cylinder Zone 4 Temp.  | 200 - 250 | °C |
| Adapter Temperature    | 200 - 250 | °C |
| Melt Temperature       | 200 - 250 | °C |
| Die Temperature        | 200 - 250 | °C |

#### Extrusion instructions

Top RollStack Temperature: 70 to 100°C Middle RollStack Temperature: 70 to 90°C Bottom RollStack Temperature: 60 to 90°C

#### NOTE

|    |                          |
|----|--------------------------|
| 1. | 50 mm/min                |
| 2. | 50 mm/min                |
| 3. | 15 mm/min                |
| 4. | 15 mm/min                |
| 5. | 4.6kg                    |
| 6. | 18.6kg                   |
| 7. | 速率 A (50°C/h), 载荷2 (50N) |

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