

# Sindustris ABS LRS768L

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LRS768L is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for extrusion.

Important attributes of Sindustris ABS LRS768L are:

Flame Rated

Chemical Resistant

Typical applications include:

Appliances

Bags/Liners

| General Information                            |                          |                   |             |
|------------------------------------------------|--------------------------|-------------------|-------------|
| Features                                       | Good Chemical Resistance |                   |             |
|                                                | Low Density              |                   |             |
| Uses                                           | Appliance Components     |                   |             |
|                                                | Liners                   |                   |             |
| UL File Number                                 | E306922                  |                   |             |
| 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)      | 4.0                      | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)             | 0.40 to 0.70             | %                 | ASTM D955   |
| Hardness                                       | Nominal Value            | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                    | 101                      |                   | ASTM D785   |
| Mechanical                                     | Nominal Value            | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm) | 46.1                     | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup>                |                          |                   | ASTM D638   |
| Yield, 3.20 mm                                 | > 5.0                    | %                 |             |
| Break, 3.20 mm                                 | 35                       | %                 |             |
| Flexural Modulus <sup>3</sup> (3.20 mm)        | 2400                     | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)       | 74.5                     | MPa               | ASTM D790   |
| Impact                                         | Nominal Value            | Unit              | Test Method |
| Notched Izod Impact                            |                          |                   | ASTM D256   |
| -30°C, 3.20 mm                                 | 170                      | J/m               |             |
| -30°C, 6.40 mm                                 | 160                      | J/m               |             |
| 23°C, 3.20 mm                                  | 460                      | J/m               |             |
| 23°C, 6.40 mm                                  | 390                      | J/m               |             |
| Thermal                                        | Nominal Value            | Unit              | Test Method |

|                                   |                                   |      |                         |
|-----------------------------------|-----------------------------------|------|-------------------------|
| Deflection Temperature Under Load |                                   |      | ASTM D648               |
| 0.45 MPa, Unannealed, 6.40 mm     | 94.0                              | °C   |                         |
| 1.8 MPa, Unannealed, 6.40 mm      | 89.0                              | °C   |                         |
| Vicat Softening Temperature       | 96.0                              | °C   | ASTM D1525 <sup>5</sup> |
| Flammability                      | Nominal Value                     |      | Test Method             |
| Flame Rating                      | HB                                |      | UL 94                   |
| Extrusion                         | Nominal Value                     | Unit |                         |
| Drying Temperature                | 70.0 to 80.0                      | °C   |                         |
| Drying Time                       | 3.0 to 4.0                        | hr   |                         |
| Suggested Max Moisture            | 0.010                             | %    |                         |
| Melt Temperature                  | 200 to 250                        | °C   |                         |
| Die Temperature                   | 200 to 250                        | °C   |                         |
| NOTE                              |                                   |      |                         |
| 1.                                | 50 mm/min                         |      |                         |
| 2.                                | 50 mm/min                         |      |                         |
| 3.                                | 15 mm/min                         |      |                         |
| 4.                                | 15 mm/min                         |      |                         |
| 5.                                | Rate A (50°C/h), Loading 2 (50 N) |      |                         |

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