

# Sindustris ABS LMU731

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LMU731 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for extrusion.

Important attributes of Sindustris ABS LMU731 are:

Flame Rated

Good Dimensional Stability

| General Information                            |                            |                   |                         |
|------------------------------------------------|----------------------------|-------------------|-------------------------|
| Features                                       | Good Dimensional Stability |                   |                         |
| 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)      | 25                         | 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)                    | 104                        |                   | ASTM D785               |
| Mechanical                                     | Nominal Value              | Unit              | Test Method             |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm) | 37.3                       | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup>                |                            |                   | ASTM D638               |
| Yield, 3.20 mm                                 | > 5.0                      | %                 |                         |
| Break, 3.20 mm                                 | 25                         | %                 |                         |
| Flexural Modulus <sup>3</sup> (3.20 mm)        | 2550                       | MPa               | ASTM D790               |
| Flexural Strength <sup>4</sup> (3.20 mm)       | 68.6                       | MPa               | ASTM D790               |
| Impact                                         | Nominal Value              | Unit              | Test Method             |
| Notched Izod Impact                            |                            |                   | ASTM D256               |
| 23°C, 3.20 mm                                  | 350                        | J/m               |                         |
| 23°C, 6.40 mm                                  | 310                        | J/m               |                         |
| Thermal                                        | Nominal Value              | Unit              | Test Method             |
| Deflection Temperature Under Load              |                            |                   | ASTM D648               |
| 0.45 MPa, Unannealed                           | 91.0                       | °C                |                         |
| 1.8 MPa, Unannealed, 6.40 mm                   | 84.0                       | °C                |                         |
| Vicat Softening Temperature                    | 92.0                       | °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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