

# Idemitsu PS SEHI-102

High Impact Polystyrene

Idemitsu PS

Message:

Idemitsu PS SEHI-102 is a high impact polystyrene product. It can be processed by extrusion or injection molding and is available in the Asia-Pacific region. Typical application areas are: housing.

- Features include:
- flame retardant/rated flame
  - Flame Retardant
  - Impact resistance
  - Heat resistance

| General Information |                         |  |  |
|---------------------|-------------------------|--|--|
| Features            | Impact resistance, high |  |  |
|                     | Heat resistance, high   |  |  |
|                     | Flame retardancy        |  |  |
| Uses                | Shell                   |  |  |
| UL File Number      | E63304                  |  |  |
| Forms               | Particle                |  |  |
| Processing Method   | Extrusion               |  |  |
|                     | Injection molding       |  |  |

| Physical                                 | Nominal Value | Unit              | Test Method |
|--|---------------|-------------------|-------------|
| Specific Gravity                         | 1.15          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 10            | g/10 min          | ASTM D1238  |

| Mechanical                 | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Tensile Strength (Break)   | 23.5          | MPa  | ASTM D638   |
| Tensile Elongation (Break) | 50            | %    | ASTM D638   |

| Thermal   | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 79.0          | °C   | ASTM D648   |

| Flammability           | Nominal Value | Test Method |
|------------------------|---------------|-------------|
| Flame Rating (3.00 mm) | V-0           | UL 94       |

| Additional Information                     |  |  |  |
|--|--|--|--|
| Notched Izod Impact, ASTM D256: 8 kg-cm/cm |  |  |  |

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 70.0          | °C   |
| Drying Time        | 1.0 - 2.0     | hr   |
| Rear Temperature   | 180 - 210     | °C   |
| Middle Temperature | 190 - 220     | °C   |
| Front Temperature  | 210 - 240     | °C   |

|                       |               |      |
|-----------------------|---------------|------|
| Nozzle Temperature    | 200 - 230     | °C   |
| Mold Temperature      | 40.0 - 60.0   | °C   |
| Extrusion             | Nominal Value | Unit |
| Drying Temperature    | 70.0          | °C   |
| Drying Time           | 1.0 - 2.0     | hr   |
| Cylinder Zone 1 Temp. | 160 - 200     | °C   |
| Cylinder Zone 2 Temp. | 180 - 220     | °C   |
| Cylinder Zone 3 Temp. | 200 - 240     | °C   |
| Cylinder Zone 4 Temp. | 200 - 240     | °C   |
| Die Temperature       | 190 - 220     | °C   |

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