

# Idemitsu PS HT55

High Impact Polystyrene

Idemitsu PS

Message:

Idemitsu PS HT55 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  
high gloss  
Impact resistance

| General Information |                         |
|---------------------|-------------------------|
| Features            | Highlight               |
|                     | Impact resistance, high |
| Uses                | Shell                   |
| Forms               | Particle                |
| Processing Method   | Extrusion               |
|                     | Injection molding       |

| Physical  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity  | 1.04          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)                | 2.5           | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (L-Scale)                             | 56            |                   | ASTM D785   |
| Mechanical  | Nominal Value | Unit              | Test Method |
| Tensile Strength (Break)                                | 31.4          | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 60            | %                 | ASTM D638   |
| Flexural Modulus  | 1960          | MPa               | ASTM D790   |
| Flexural Strength                                       | 54.9          | MPa               | ASTM D790   |
| Thermal   | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 85.0          | °C                | ASTM D648   |
| Flammability  | Nominal Value |                   | Test Method |
| Flame Rating (1.50 mm)                                  | HB            |                   | UL 94       |
| Optical   | Nominal Value |                   | Test Method |
| Gloss   | 80            |                   | ASTM D2457  |
| Additional Information                                  |               |                   |             |
| Notched Izod Impact, ASTM D256: 12 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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