



# IDEMITSU PS HT50

## PRODUCT INFORMATION

### High Impact PS

| FEATURES                                                      | APPLICATIONS                                                                                    |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>High Impact</li> </ul> | <ul style="list-style-type: none"> <li>Audio/TV/VTR Housing</li> <li>Household Items</li> </ul> |

| PROPERTY                                | TESTING METHOD | UNITS                         | VALUES        |
|-----------------------------------------|----------------|-------------------------------|---------------|
| Specific Gravity                        | ASTM D 792     | -                             | 1.04          |
| Melt Flow Rate (200/5)                  | ASTM D 1238    | g/10 min                      | 4.0           |
| Tensile Strength (Break)                | ASTM D 638     | kg/cm <sup>2</sup>            | 310           |
| Ultimate Elongation                     | ASTM D 638     | %                             | 40            |
| Flexural Strength                       | ASTM D 790     | kg/cm <sup>2</sup>            | 560           |
| Flexural Modulus                        | ASTM D 790     | kg/cm <sup>2</sup>            | 22,000        |
| Izod Impact Strength                    | ASTM D 256     | kg.cm/cm                      | 8.5           |
| Heat Distortion Temperature             | ASTM D 648     | °C                            | 85            |
| Vicat Softening Point                   | ASTM D 1525    | °C                            | 107           |
| Glossiness                              | ASTM D 523     | %                             | 50            |
| Linear Mold Shrinkage                   | ASTM D 955     | cm/cm                         | 0.004 ~ 0.007 |
| Rockwell Hardness                       | ASTM D 785     | L scale                       | L60           |
| Dupont Impact Strength                  | ASTM D3029     | kg.cm                         | 100           |
| Coefficient of Linear Thermal Expansion | ASTM D696      | * 10 <sup>-5</sup> mm/mm / °C | 5 ~ 10        |
| Water Absorption                        | ASTM D570      | %                             | < 0.1         |
| Flammability                            | UL 94          | Flame Class                   | HB            |
| Hot Wire Ignition (HWI)                 | UL 746A        | HWI PLC                       | 4             |
| High Arc Ignition (HAI)                 | UL 746A        | HAI PLC                       | 0             |
| Electrical RTI                          | UL 746B        | °C                            | 50            |
| Mechanical Impact RTI                   | UL 746B        | °C                            | 50            |
| Mechanical Strength RTI                 | UL 746B        | °C                            | 50            |

#### Notes:

- The properties of resin summarized in this brochure are typical, or average properties measured intended as guides only, not as specification limits.
- All values of UL testing methods refer to minimum thickness of 1.5mm. Please contact Petrochemicals (M) Sdn. Bhd. for values of other thickness.
- Abbreviations:  
 PLC = Performance Level Categories  
 RTI = Relative Temperature Index

|                                                                                                                                                            |                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CERTIFICATIONS</b> <ul style="list-style-type: none"> <li>UL (File No.:E63304)</li> <li>JET (DENTORI)</li> <li>ISO9001:2000 (Quality System)</li> </ul> | <b>FOOD CONTACT</b><br>Please contact Petrochemicals (M) Sdn. Bhd. for further information on the certification/compliance/suitability of the product for food contact application. |
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