



# IDEMITSU PS HT54

## PRODUCT INFORMATION

### High Strength High Gloss High Impact PS

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> <li>• High Strength</li> <li>• High Impact</li> <li>• High Gloss</li> <li>• High Heat</li> </ul>	<ul style="list-style-type: none"> <li>• OA Housing</li> <li>• Domestic Appliances</li> <li>• Household Items</li> <li>• Food Container</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	2.5
Tensile Strength (Break)	ASTM D 638	kg/cm <sup>2</sup>	320
Ultimate Elongation	ASTM D 638	%	60
Flexural Strength	ASTM D 790	kg/cm <sup>2</sup>	560
Flexural Modulus	ASTM D 790	kg/cm <sup>2</sup>	20,000
Izod Impact Strength	ASTM D 256	kg.cm/cm	12
Heat Distortion Temperature	ASTM D 648	°C	85
Vicat Softening Point	ASTM D 1525	°C	107
Glossiness	ASTM D 523	%	80
Linear Mold Shrinkage	ASTM D 955	cm/cm	0.004 ~ 0.007
Rockwell Hardness	ASTM D 785	L scale	L56
Dupont Impact Strength	ASTM D3029	kg.cm	160
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:**

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

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