



IDEMITSU PS MS500

PRODUCT INFORMATION

Medium Impact PS

FEATURES	APPLICATIONS
<ul style="list-style-type: none">• Medium Type HIPS	<ul style="list-style-type: none">• Audio/VTR Housing• Household Items

PROPERTY	TESTING METHOD	UNITS	VALUES
Specific Gravity	ASTM D 792	-	1.04
Melt Flow Rate (200/5)	ASTM D 1238	g/10 min	5.0
Tensile Strength (Break)	ASTM D 638	kg/cm ²	320
Ultimate Elongation	ASTM D 638	%	35
Flexural Strength	ASTM D 790	kg/cm ²	600
Flexural Modulus	ASTM D 790	kg/cm ²	23,000
Izod Impact Strength	ASTM D 256	kg.cm/cm	7.5
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	L68
Dupont Impact Strength	ASTM D3029	kg.cm	90
Coefficient of Linear Thermal Expansion	ASTM D696	* 10 ⁻⁵ 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	3
High Arc Ignition (HAI)	UL 746A	HAI PLC	1
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

CERTIFICATIONS <ul style="list-style-type: none">• UL (File No.:E63304)• JET (DENTORI)• ISO9001:2000 (Quality System)	FOOD CONTACT <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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