

# Idemitsu PS SEHI-105

High Impact Polystyrene

Idemitsu PS

Message:

Idemitsu PS SEHI-105 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
  - high liquidity
  - Impact resistance
  - Heat resistance

General Information			
Features	Impact resistance, high		
	High liquidity		
	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)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	19.6	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	77.0	°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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#### Recommended distributors for this material

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