

Idemitsu PS IT43

General Purpose Polystyrene

Idemitsu PS

Message:

Idemitsu PS IT43 is a general-purpose polystyrene product. It can be processed by extrusion or injection molding and is available in the Asia-Pacific region.

- Features include:
- flame retardant/rated flame
 - high liquidity

General Information			
Features	High liquidity		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	27.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	2020	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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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