

CP PRYME® Polystyrene PS100HI-3M

High Impact Polystyrene
Chase Plastics Services Inc.

Message:

3 Melt, Prime High Impact Polystyrene, Natural, FDA Compliant

General Information			
Features	Impact resistance, high		
Agency Ratings	FDA not rated		
Appearance	Natural color		
Forms	Particles, after reprocessing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	2.6	g/10 min	ASTM D1238
220°C/10.0 kg	8.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (3.00 mm)	25.5	MPa	ASTM D638
Tensile Elongation (Break, 3.00 mm)	55	%	ASTM D638
Flexural Modulus (5.99 mm)	1860	MPa	ASTM D790
Flexural Strength (5.99 mm)	35.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.00 mm	150	J/m	ASTM D256
23°C, 5.99 mm	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, not annealed	80.0	°C	ASTM D648
1.8 MPa, annealed	93.9	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating (1.6 mm)	HB		UL 94
Extrusion	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 3.0	hr	
Cylinder Zone 1 Temp.	180 - 200	°C	
Cylinder Zone 3 Temp.	200 - 220	°C	
Cylinder Zone 5 Temp.	200 - 230	°C	

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