

3D Systems CastForm™ PS Plastic for SLS® Systems

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

For use with all selective laser sintering (SLS®) systems. Applications Create patterns directly rather than through indirect methods Complex investment casting patterns Reactive metals like titanium Low melt-temperature metals such as aluminum, magnesium and zinc Ferrous and non-ferrous metals Economic, low-volume production castings without tooling Smaller parts can be joined to create very large patterns Sacrificial, expendable patterns Features Functions like foundry wax and is "foundry friendly" Low residual ash content (less than 0.02%) Short burnout cycle Easy-to-process plastic Good plastic powder recycle characteristics All information provided by 3D Systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3D-Systems-CastForm-PS-Plastic-for-SLS-Systems.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.860 g/cc	0.860 g/cc	ASTM D792
Bulk Density	0.460 g/cc	0.0166 lb/in ³	tap; ASTM D4164
Water Absorption	0.060 % @Temperature 20.0 °C	0.060 % @Temperature 68.0 °F	65% R.H.; ASTM D570
Thickness	3.00 microns	0.118 mil	Upward surface, after polishing; Mitutoyo Surftest-402
	13.0 microns	0.512 mil	Upward surface, as processed; Mitutoyo Surftest-402
Ash	0.020 %	0.020 %	ASTM D482

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2.84 MPa	412 psi	ASTM D638
Tensile Modulus	1.604 GPa	232.6 ksi	ASTM D638
Izod Impact, Notched	<= 0.110 J/cm	<= 0.206 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.140 J/cm	0.262 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	>= 63.0 °C	>= 145 °F	Wax
Glass Transition Temp, Tg	89.0 °C	192 °F	Polystyrene; ASTM D3418
Flash Point	>= 200 °C	>= 392 °F	Wax; Cleveland Open Cup
	350 °C	662 °F	Polystyrene; Cleveland Open Cup

Descriptive Properties	Value	Comments
Autoignition Point (°C)	410	Polystyrene

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