

## Proto3000 CastForm™ PS Selective Laser Sintering (SLS®) Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

### Material Notes:

**Description:** Directly produce complex investment casting patterns without tooling..**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****Benefits:**Create complex patterns without welds or joints**Reduce lead times resulting in faster time-to-market****Compatible with autoclaves, low-temperature furnaces, and vacuum plaster casting methods****Easy to assemble and repair patterns****Rapidly test new designs in iterative process****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****Castform™ PS patterns are comparable to conventional wax patterns in the following areas:****Assembly methods and tools****Stability and transportability****Handling during assembly and repair****Suitable for all cast metal alloys****Low residual ash****No ceramic shell cracking****Usable for ceramic and plaster molds****Information provided by Proto3000 for their prototyping engineering services.**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Proto3000-CastForm-PS-Selective-Laser-Sintering-SLS-Prototyping-Polymer.php](http://www.lookpolymers.com/polymer_Proto3000-CastForm-PS-Selective-Laser-Sintering-SLS-Prototyping-Polymer.php)

Physical Properties	Metric	English	Comments
Density	0.460 g/cc	0.0166 lb/in <sup>3</sup>	tap; ASTM D4164
	0.860 g/cc	0.0311 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption at Equilibrium	0.060 %	0.060 %	65% RH; ASTM D570
	@Temperature 20.0 °C	@Temperature 68.0 °F	
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
Glass Transition Temp, Tg	89.0 °C	192 °F	Polystyrene; ASTM D3418
Flash Point	>= 200 °C	>= 392 °F	Wax
	350 °C	662 °F	Polystyrene Method

Descriptive Properties	Value	Comments
Autoignition Point	410°C	Polystyrene
Upward Surface	13 µm	as processed, Mitutoyo Surftest-402
	3 µm	after polishing, Mitutoyo Surftest-402

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China