

CRP Technology Windform® PS Polystyrene for Selective Laser Sintering

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Windform® PS is a polystyrene based material, developed specifically to produce complex investment casting patterns. The sintered patterns are ideal for conventional wax infiltration, and become easy to handle and finish. Windform® PS patterns are designed to work within regular rapid casting procedures, including autoclave and flash firing steps, low-temperature furnaces and vacuum plaster casting methods. Improved properties that make the difference, are: Improved surface quality and fine feature preservation; Reduced "curling" effect on the first layers; Very low ash content, therefore well suited for highly reactive alloys, such as Titanium, Aluminum, Magnesium, Steel and Nickel based alloys..Sample applications: Complex investment casting patterns; Casting with highly reactive alloys, as well as conventional cast alloys. The casting structure is formed from an aggregate of grains or polyhedral crystallites which produce isotropic compensation: it is obvious that isotropy has great advantages, for instance, FEM calculations are very close to the real behaviour of the part.Information provided by CRP Technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CRP-Technology-Windform-PS-Polystyrene-for-Selective-Laser-Sintering.php

Physical Properties	Metric	English	Comments
Bulk Density	0.380 - 0.480 g/cc	0.0137 - 0.0173 lb/in³	Tap; ASTM D4164
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	ISO 62
Particle Size	52 µm	52 µm	Laser diffraction; d₅₀; ISO 13320
	25 - 100 µm	25 - 100 µm	Laser diffraction; 90% range; ISO 13320
Ash	<= 0.020 %	<= 0.020 %	ASTM D482

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	87.5 °C	190 °F	DSC

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