

INVESTMENT CASTING

PS-200

HIGHLIGHTS

- Very low density and ash content
- Compatible with standard foundry processes and practices
- Easy and efficient pattern removal and wax infiltration
- 100% recyclable

APPLICATIONS

- Complex investment casting patterns
- Automotive and marine components
- Mold and rapid tooling applications
- Ideal for casting applications with low melt temperature metals

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	ENGLISH	METRIC
Color/Appearance	Visual	White	White
Bulk Density	ASTM D1895	0.266 oz/in ³	0.46 g/cm ³
Ash Content	ASTM D482	0.02%	0.02%
Average Particle Size (D50)	Laser Diffraction	0.002 inches	62 microns
Particle Size Range (D10-D90)	Laser Diffraction	0.001 - 0.004 inches	25 - 106 microns
Glass Transition Temperature (Tg)	ASTM D3418	192° F	89° C
Heat Deflection Temperature	ASTM D648	92° F @ 66 psi	33° C @ 0.45 MPa
Heat Deflection Temperature	ASTM D648	104° F @ 264 psi	40° C @ 1.82 MPa
Tensile Strength	ASTM D638	412 psi	2.84 MPa
Tensile Modulus	ASTM D638	233 psi	1,604 MPa
Izod Impact Strength - Unnotched	ASTM D256	0.2 ft-lb/in	11 J/m
Izod Impact Strength - Notched	ASTM D256	.26 ft-lb/in	14 J/m
Auto Ignition Point	—	770° F	410° C

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.



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About RPS

RPS has been in operation over ten years and our engineers collectively have decades of experience working with stereolithography and laser sintering equipment. With proven experience in 3D printing, engineering, electronics, computer-aided engineering and more, we understand the technology and can offer advice on how it can suit your specific application.

We manufacture the **NEO800** stereolithography system, designed, developed and built by RPS engineers. We are also an HP Channel Partner of HP's Multi-Jet Fusion technology and offer a range of materials and software through our partnership with market-leading suppliers ALM, DSM Somos® and Materialise.

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