

ALM PS 200 Prototyping Polymer

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

Material Notes:

Non-spherical polystyrene powder for production of complex investment casting patterns. PS-200 can be used as a direct drop in replacement for Castform®, and can be successfully blended with Castform® without any change in processing parameters. Optimized for Sinterstation platforms. Infiltrated with Red Wax #2-D504. Information provided by Advanced Laser Materials (ALM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ALM-PS-200-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.460 g/cc	0.0166 lb/in³	ASTM D1895
Density	0.860 g/cc	0.0311 lb/in³	Sintered; ASTM D792
Ash	0.020 %	0.020 %	ASTM D482

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2.84 MPa	412 psi	Infiltrated; ASTM D638
Tensile Modulus	1.604 GPa	232.6 ksi	Infiltrated; 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 Infiltrated; ASTM D3418
Glass Transition Temp, Tg	89.0 °C	192 °F	Unfiltrated; ASTM D3418

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