

Precimid® 1190

Precimid® 1190 is a proven ultramicro powder with high-performance application for laser sintering system. Laser sintering part can be used as functional model, vacuum casting prototype, and even final plastic part/product. According to different purposes, users can select different laser energy and in the most economical way to apply this material to plastic model and direct part. Compared to Precimid® 1170, this material has higher heat-resistance and hardness, thanks to the 40% Glass filled.

Key Performance:

- Low temperature impact resistance
- Ultra-low water absorption
- High deflection
- Forming efficiency
- Heat and corrosion resistance
- Precise tolerance and almost non deformation

Applicable Systems:

- DTM
SINTERSTATION 2000
SINTERSTATION 2500
SINTERSTATION 2500PLUS
- 3DSYSTEMS
VANGUARD SERIES
- EOS GmbH
EOSINT P380
EOSINT P385
EOSINT P390
EOSINT P700
- TPM ELITE
P 3600
P 5500

High Tolerance
High Efficiency
High Performance

Part Applications

- Plastic direct parts for automobile and motorcycle
- Gas collection tubes or air headers of different type
- Household/electrical appliance and toys
- Air and electric tools
- Underwater tools
- Sports equipment
- Medical equipment

Precimid[®] 1190 Property Sheet

		Test method	Unit	State	Precimid [®]
					1190
General properties					
Density			g/cm ³	Dry	1.3
Water absorption	(23°C/sat.)	DIN 53495	%		1.6
Moisture absorption	(23°C/50% r.h.)	Acc. DIN 53495	%		0.79
Mechanical properties					
Tensile strength		ISO527	MPa	Cond.	50
Elongation at break		ISO527	%	Cond.	8
Tensile E modulus		ISO 527	MPa	Cond.	3000
Impact strength	Izod, 23°C	ISO 180/1C	MPa	Cond.	N.B.
	Izod, -30°C	ISO 180/1C	MPa	Cond.	N.B.
Notched impact strength	Izod, 23°C	ISO 180/1A	J/m	Cond.	8
	Izod, -30°C	ISO 180/1A	J/m	Cond.	4
Thermal properties					
Heat distortion temperature					
HDT B 0.46 N/mm ²	DSC	DIN 53461	°C	Dry	176
HDT A 1.82 N/mm ²	DSC	DIN 53461	°C	Dry	124

- Parameters of sintering energy may vary according to different laser sintering system;
- Parameters of sintering energy may also vary according to different usage;

High Tolerance
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