



Material data sheet for plastic parts

PLASTIC

Base material	PMMA particulate material (55 µm)	PMMA particulate material (85 µm)
Binder-type	Polypor B (PPB)	Polypor C (PPC)
Tensile strength	4.3 MPa	3.7 MPa
Yield point	1 %	1 %
Burn-out temperature	700 °C	600 °C
Residual ash content	< 0.3 % weight	< 0.02 % weight
Especially suitable for	investment casting; design models	investment casting; architectural models
Advantages	sharp edges; for highest accuracy and true-to-detail; reusable particle material	burns out well with practically no residual ash content; reusable particle material

TECHNICAL DATA PLASTIC PARTS

Layer thickness	Standard 150 µm
Resolution x, y	up to 600 dpi
Accuracy	± 0.4 % (min. ± layer thickness)

SUITABLE FINISHING TREATMENT

	Wax	Epoxy
Tensile strength	see base material	up to 25 MPa
Softening temperature	73 °C	80 °C
Burn-out temperature	see base material	–
Characteristics	smooth liquid-resistant surface	solid material, dyeable

ADVANTAGES OF PLASTIC MODELS

- Model sizes up to 1,000 x 600 x 500 mm (LxWxH)
- up to 600 dpi print resolution
- Same handling as for conventional wax parts after wax infiltration
- No shell cracking due to negative coefficient of thermal expansion.
- Suitable for autoclaves, even for thin-walled shells
- Low residual ash content
- No heat distortion as hardening process is purely a chemical process
- Coloured display models through epoxy infiltration

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. voxeljet makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use. ©voxeljet. All rights reserved. The designations voxeljet, VX200, VX500, VXC800, VX1000, VX2000 and VX4000 are registered trademarks of voxeljet AG. Specifications subject to change without notice.

Validity: 09/2016. We reserve the right to make technical changes. voxeljet is ISO 9001- certified.