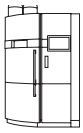
COMPATIBILITY OF
POLYMER MATERIALS AND SYSTEMS

Product name
Layer thickness



FORMIGA P 110 ***Velocis***

Polyamide 12

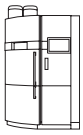
- PA 2200 — 60 | 100 | 120 µm
- PA 2201 — 100 µm
- PA 3200 GF — 100 µm
- Alumide — 100 µm

Polyamide 11

- PA 1101 — 100 µm
- PA 1100 — 100 µm

Thermoplastic Elastomer

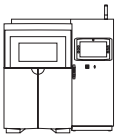
- EOS TPU 1301 — 100 µm



FORMIGA P 110 ***FDR***

Polyamide 11

- PA 1101 — 40 µm
- PA 1100 — 40 µm



EOS P3 NEXT

Polyamide 12

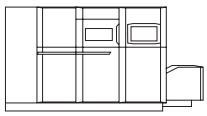
- PA 2200 — 60 | 100 | 120 µm
- PA 3200 GF — 120 µm
- PA 2220 HighReuse — 120 µm
- PA 2201 — 120 µm
- ALM PA 950 HD — 120 µm
- Alumide — 120 µm
- ALM PA 603-CF — 100 µm

Polyamide 11

- PA 1101 — 120 µm

Thermoplastic elastomer

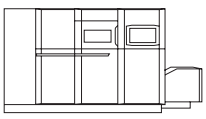
- EOS TPU 1301 — 120 µm



EOS P 500

Polyamide 12

- PA 2200 — 120 µm
- ALM PA 950 HD — 120 µm



EOS P 500 FDR

Polyamide 11

- PA 1101 — 120 µm
- PA 1100 — 120 µm

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COMPATIBILITY OF
POLYMER MATERIALS AND SYSTEMS

Product name
Layer thickness

Polyamide 12

- PA 2200
  60 | 100 | 120
  150 | 180 µm
- PA 2201
  100 | 120 | 150 µm
- PA 2210 FR
  150 µm
- PA 3200 GF
  120 | 150 µm
- PrimePart FR
  (PA 2241 FR)
  100 | 150 µm
- Alumide
  120 | 150 µm
- ALM PA 950 HD
  120 µm

Polyamide 11

- PA 1101
  120 µm
- PA 1100
  120 µm

Thermoplastic elastomer

- EOS TPU 1301
  120 µm
- ALM TPE 410
  120 | 150 µm

EOS P 770

Polyaryletherketon

- HT-23
  120 µm
- PEKK 100
  100 µm

Further Materials
Available on Request

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EOS POLYMER MATERIALS
TECHNICAL DATA

Product class	Product name	Colour of laser-sintered parts	Main properties	Customer Applications
Polyamide 12	PA 2200	white	→ Balanced property profile → Multipurpose material → Compliant to (EU) No. 1935/2004 and GMP	Functional parts, production equipment, spare parts, surgery cutting guides, eyewear
	PA 2220 HighReuse	white	→ Highly efficient PA12 → Balanced property profile → White multipurpose material	Functional parts, structural components, production equipment, spare parts, eyewear
	ALM PA 950 HD	grey	→ Improved surface finish & definition → Uniform black pigmentation → Stabilized polymer for consistent reusability	Mechanical stress resistant parts with balanced strength and flexibility
Polyamide 12, glass bead filled	PA 3200 GF	whitish	→ High stiffness → Wear resistance → Improved temperature performance	Stiff machine components like housings, abrasion resistant parts, forming tools
Polyamide 12, aluminium filled	Alumide	metallic grey	→ Thermal conductivity (limited) → High stiffness → Easy post-processing	Design elements, production equipment, injection mold for small batch production
Polyamide 11	PA 1100	white	→ High ductility and impact resistance → High color fastness → Biobased material	Impact-resistant parts, functional parts, eyewear
	PA 1101	natural	→ High ductility and impact resistance → Balanced property profile → Biobased material	Functional parts requiring impact resistance or high elongation at break
For special applications				
Polyamide 12	PA 2201	natural	→ natural PA12 perfect for biocompatible/ medical applications	Functional parts
Polyamide 12, flame retardant	PA 2210 FR	white	→ Flame retardancy confirmed by UL Blue Card → Halogen-free material	Aircraft and railway interior, electrical and electronic parts
	PrimePart FR (PA 2241 FR)	white	→ Airbus qualified flame-retardant material → Halogen-based flame retardant	Aircraft interior parts
Polymamide 12, carbon-fiber filled	ALM PA 603-CF	black	→ High-detail black surface finish → Good stiffness and mechanical properties → Warping resistance at elevated temperatures	Parts with high impact resistance Motorracing applications Industrial applications with an HDT of ~177° C Wind tunnel model testing
Polyetherketone-ketone, carbon fiber reinforced	HT-23	grey	→ Extreme strength, stiffness, thermal and ltd. electrical conductivity → Inherently flame retardant (FAR 25.853, DIN EN 45545-2 R1 & R24)	Light and stiff functional parts, metal replacement, aerospace and mobility interior
Polyetherketone-ketone	PEKK 100	beige	→ Extreme strength, high toughness, high dielectric strength, fully insulative → Inherently flame retardant	Parts with high oil and chemical resistance, replacement of PA6/PA66 compounds or metals
Thermoplastic Elastomer	EOS TPU 1301	white	→ Great resilience, good hydrolysis resistance, high UV-stability	Protective gear, soles, tubes, bellows, seals, gaskets
	ALM TPE 410	white	→ Light weight, high rebound, soft velvet touch	Soles, cushioning, orthosis, linings

Detailed information: www.eos.info/polymer-solutions/polymer-materials

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The powders have not been developed, tested or certified as a medical device according to Directive 93/42/EEC (MDD) or Regulation (EU) 2017/745 (MDR) and are not intended to be used as a medical device, in particular for the purposes specified in Art. 2 No. 1 MDR. Insofar as you intend to use a powder as raw material for the manufacture of pharmaceutical products or medical devices (e.g. as raw material which as a material must meet the requirements of Annex 1, Chapter II MDR), the responsibility and liability for all analyses, tests, evaluations, procedures, risk assessments, conformity assessments, approval and certification procedures as well as for all other official and regulatory measures required for this purpose shall lie solely with you both with regard to the pharmaceutical product and/or medical device manufactured by you and with regard to the properties, suitability, testing, evaluation, risk assessment, other requirements for use of the powder as raw material.