

COMPATIBILITY OF POLYMER MATERIALS AND SYSTEMS



Product name
Layer thickness

| | Polyamide 12 | | Polyamide 11 | | Thermoplastic Elastomer |
|--|--|----------------------|----------------------------------|-------------------|-------------------------|
| | PA 2200 CarbonReduced 60 100 120 µm | PA 3200 GF 100 µm | PA 1101 ClimateNeutral 100 µm | Alumide 100 µm | EOS TPU 1301 100 µm |
| | PA 2200 60 100 120 µm | | PA 1100 100 µm | | |
| | PA 2201 100 µm | | PA 1101 100 µm | | |

FORMIGA P 110 *Velocis*

| | Polyamide 11 |
|--|---------------------------------|
| | PA 1101 ClimateNeutral 40 µm |
| | PA 1100 40 µm |
| | PA 1101 40 µm |

FORMIGA P 110 *FDR*

| | Polyamide 12 | | Polyamide 11 | |
|--|--|----------------------|----------------------------------|--|
| | PA 2200 CarbonReduced 60 100 120 µm | ALM 950 HD 120 µm | PA 1101 ClimateNeutral 120 µm | |
| | PA 3200 GF 120 µm | Alumide 120 µm | PA 1101 100 µm | |
| | PA 2200 60 100 120 µm | | | |
| | PA 2220 HighReuse 120 µm | | | |
| | PA 2201 120 µm | | | |

EOS P3 NEXT

| | Polyamide 12 | |
|--|---------------------------------|-------------------------|
| | PA 2200 CarbonReduced 120 µm | ALM PA 950 HD 120 µm |
| | PA 2200 120 µm | |

EOS P 500

| | Polyamide 11 |
|--|----------------------------------|
| | PA 1101 ClimateNeutral 120 µm |
| | PA 1100 120 µm |
| | PA 1101 120 µm |

EOS P 500 *FDR*

COMPATIBILITY OF POLYMER MATERIALS AND SYSTEMS



Product name
Layer thickness

Polyamide 12



PA 2200 CarbonReduced
60 | 100 | 120
150 | 180 µm



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 ClimateNeutral
120 µm



PA 1100
120 µm



PA 1101
120 µm

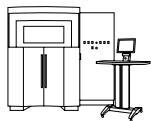
Thermoplastic elastomer



EOS TPU 1301
120 µm



EOS TPE 410
120 | 150 µm



EOS P 770

Polyaryletherketon

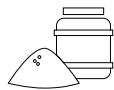


HT-23
120 µm



PEKK 100
100 µm

Further Materials
Available on Request



EOS POLYMER MATERIALS

TECHNICAL DATA



| Product class | Product name | Colour of laser-sintered parts | Main properties | Typical applications |
|---|---|--------------------------------|---|--|
| Polyamide 12 | PA 2200 CarbonReduced  | white | → PA 2200 properties → 45 % less CO ₂ e | PA 2200 applications |
| | 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 ClimateNeutral  | natural | → PA 1101 properties → Climate neutrality through optimized production and climate protection investments | PA 1101 applications |
| | 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 |
| 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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