

EOS Materials Plastic

Product class	Product name	Colour of laser-sintered parts	Main properties	Typical applications
Polyamide 12	PA 2200	white	<ul style="list-style-type: none"> Multipurpose material Balanced property profile 	<ul style="list-style-type: none"> Functional parts
	PrimePart® PLUS (PA 2221)	natural	<ul style="list-style-type: none"> Economical multipurpose material Balanced property profile Variety of certificates available (Biocompatibility, Food contact) 	<ul style="list-style-type: none"> Functional parts
	PA 2202 black	anthracite black	<ul style="list-style-type: none"> Balanced property profile Pigmented throughout 	<ul style="list-style-type: none"> Functional parts in anthracite black colour
Polyamide 12, glass bead filled	PA 3200 GF	whitish	<ul style="list-style-type: none"> High stiffness Wear resistance Improved temperature performance 	<ul style="list-style-type: none"> Stiff housings Parts with requirements on wear and abrasion Parts used under elevated thermal conditions
Polyamide 12, aluminium filled	Alumide®	metallic grey	<ul style="list-style-type: none"> Easy post-processing, good machinability High temperature performance Thermal conductivity (limited) High stiffness 	<ul style="list-style-type: none"> Applications with metallic finish Parts requiring machining Parts with thermal loads
Polyamide 12, carbon fibre reinforced	CarbonMide®	anthracite black	<ul style="list-style-type: none"> Extreme strength and stiffness Thermal and limited electrical conductivity Best strength / weight ratio 	<ul style="list-style-type: none"> Light and stiff functional parts Metal replacement
Polyamide 11	PA 1101	natural	<ul style="list-style-type: none"> High ductility and impact resistance Otherwise balanced property profile (similar to PA 2200) From renewable sources 	<ul style="list-style-type: none"> Functional parts requiring impact resistance Parts with functional elements like film hinges
	PA 1102 black	black	<ul style="list-style-type: none"> Similar to typical applications for PA 1101 Additionally: black, mass-coloured applications, which remain black even under abrasive wear / scratching 	<ul style="list-style-type: none"> Similar to typical applications for PA 1101 Additionally: black, integrated colour Through mass-colourisation suitable for scratch resistant parts
For special applications				
Polyamide 12	PA 2201	natural	<ul style="list-style-type: none"> Multipurpose material Material primarily for use in North America 	<ul style="list-style-type: none"> Functional parts
	PA 2105	light beige	<ul style="list-style-type: none"> Highest dimensional accuracy High surface quality and detail resolution 	<ul style="list-style-type: none"> Dental
Polyamide 12, flame retardant	PA 2210 FR	white	<ul style="list-style-type: none"> Flame retardancy Halogen-free material 	<ul style="list-style-type: none"> Aerospace Electric and electronics
	PrimePart® FR (PA 2241 FR)	white	<ul style="list-style-type: none"> Economic flame-retardant material Material certificates available (flammability) 	<ul style="list-style-type: none"> Aerospace
TPE-A Polyetheramide-Block-Copolymer	PrimePart® ST (PEBA 2301)	white	<ul style="list-style-type: none"> Rubber-like flexibility (Shore D ≈ 35) No infiltration necessary 	<ul style="list-style-type: none"> Damping devices, bumpers / cushions, gaskets / gasket seals, shoe sole elements
Polystyrene	PrimeCast® 101	grey	<ul style="list-style-type: none"> High dimensional accuracy Low residual ash content (when burned) 	<ul style="list-style-type: none"> Master patterns for investment casting Master patterns for vacuum casting Economical visual prototypes
Polyaryletherketone	EOS PEEK HP3	beige-brown	<ul style="list-style-type: none"> High-performance material Excellent temperature performance, strength, stiffness and chemical resistance Excellent wear resistance Inherently flame retardant Potentially biocompatible (component testing required) and sterilisable 	<ul style="list-style-type: none"> Metal replacement Aerospace Automotive and motorsports Electric and electronics Medical Industrial

EOS Materials Metal

Product class	Product name	Material type*	Typical applications
Maraging steel	EOS MaragingSteel MS1	18 Mar 300 / 1.2709	Series injection molding tools; mechanical parts
Stainless steel	EOS StainlessSteel GP1	Stainless steel 17-4 / 1.4542	Functional prototypes and series-production parts; mechanical engineering and medical technology
	EOS StainlessSteel PH1	Hardenable stainless steel 15-5 / 1.4540	Functional prototypes and series-production parts; mechanical engineering and medical technology
	EOS stainlessSteel 316L	1.4404 / UNS S31673	Lifestyle: jewellery, functional elements in yachts, spectacle frames, etc. Aerospace: supports, brackets, etc. Medical: functional prototypes and series-production parts in e.g. endoscopy and orthopedics
	EOS StainlessSteel CX	Tooling grade steel	Manufacturing of injection moulding tools for medical products or products from corrosive plastics
Nickel alloy	EOS NickelAlloy IN718	Inconel™ 718, UNS N07718, AMS 5662, mat. # 2.4668	Functional prototypes and series-production parts; high-temperature turbine components
	EOS NickelAlloy IN625	Inconel™ 625, UNS N06625, AMS 5666F, mat. # 2.4856 etc.	Functional prototypes and series-production parts; high-temperature turbine components
	EOS NickelAlloy HX	UNS N06002	Components with severe thermal conditions and high risk of oxidation, e.g. combustion chambers, burner components, fans, roller hearths and support members in industrial furnaces
Cobalt chrome	EOS CobaltChrome MP1	CoCrMo super alloy, UNS R31538, ASTM F75	Functional prototypes, series-production parts, mechanical engineering, medical technology, dental
	EOS CobaltChrome SP2	CoCrMo super alloy	Dental restorations (series-production)
	EOS CobaltChrome RPD	CoCrMo super alloy	Removable partial dentures
Titanium	EOS Titanium Ti64	Ti6Al4V light metal	Functional prototypes and series-production parts; aerospace, motorsports etc.
	EOS Titanium Ti64ELI	Ti6Al4V ELI	Functional prototypes and series-production parts in medical technology
Aluminium	EOS Aluminium AISi10Mg	AISI10Mg light metal	Functional prototypes and series-production parts; mechanical engineering, motorsports etc.

* Material in accordance with respective standard