

	Material	Description	Prototypes		Stiffness	Color
			Functional	Aesthetic		
DMLS/SLM	Aluminium AlSi7Mg 0.6 (A357)	Definitive aluminum, very workable and extremely resistant. Very low specific weight (light). AlSi7Mg is an alloy for aerospace applications.				
	Aluminium AlSi10Mg					
	Aluminium AlSi12					
	Scalmalloy®	This material is corrosion-resistant and combines the low weight of aluminium with almost the specific strength of titanium.				
	Titanium Ti6Al4V ELI	Titanium grade 23, ideal for use in automotive, medical and jewelry applications according to ASTM F136-02a.				
	Titanium grade 2	Used in the manufacture of implants for the medical industry and in lightweight components for the aerospace industry according to ASTM B348.				
	Inconel 718	Nickel based alloy for the production of components for high temperatures applications.				
	Inconel 625					
	Stainless Steel AISI 316L	It's an austenitic stainless steel for the production of functional parts or components for pre-production moulds.				
	Stainless Steel AISI 310	Stainless Steel AISI 310 is austenitic, non-hardenable and heat-resistant; it is mainly used at high temperature.				
	Stainless Steel 17-4ph	It's a precipitation hardening stainless steel for the production of functional parts or medical instruments.				
	Cobalt Chrome	Material with high mechanical and thermal resistance, ideal for models with thin walls and subjected to high temperatures.				
	Remanium® Star CL	Cobalt Chrome for dental applications.				
	Bronze	It's a material whose melting properties make it outstandingly suited to generative processing.				
Copper Alloy CuNi2SiCr	Material with favorable combination of electrical and thermal conductivity accompanied by high stiffness.					
Maraging Steel 1.2709	Material for the production of components for tool inserts with conformal cooling and production of functional components.					
SLS	Windform® XT 2.0	Nylon reinforced with carbon. Very stiff structural material with high mechanical and thermal properties. Light aesthetic resolution and surface quality; ideal for definitive models.	✓	✓	Rigid	Black
	Windform® SP	It's a composite polyamide based carbon filled material characterised by deep black colour. Windform® SP has excellent mechanical properties similar to Windform® XT 2.0. In addition it has the added advantage of increased resistance to shocks, vibrations and deformations.	✓	✓	Rigid	Black
	Windform® LX 3.0	It's a new polyamide based material reinforced with new generation Glass fibre system. The properties of Windform® LX 3.0 make it particularly suited for functional applications and finished complex parts.	✓	✓	Rigid	Black
	Allusinter	Nylon reinforced with aluminum. Structural material, rigid and with high mechanical strength. Excellent reproduction of details.	✓	✓	Rigid	Light Gray
	WhiteSinter	Standard white nylon (PA12) with good characteristics of flexibility and elasticity.		✓	Semi-Rigid	White
	Flex Sinter-Infiltrated	Very tough elastomer, available in various colors; aesthetic quality lower than that of polyjet rubber.	✓		Elastic	Ivory, Yellow, Black, Red, Blue
FDM	TPU	Thermoplastic elastomer material with rubber-like flexibility and functionality for use with sPro 60 HD-HS.	✓	✓	Elastic	Ivory, Yellow, Black, Red, Blue
	ASA	It's similar to ABS M30, but is UV resistant. It's ideal for end use parts.	✓		Rigid	Ivory,Black,Light Gray, Dark Gray,White,Dark Blue, Green,Yellow,Orange,Red
	ABS M30	Standard ABS created with FDM systems; Properties are identical to ABS injection molded.	✓		Rigid	Ivory, Dark Gray, White, Black, Red, Blue
	ABS-ESD7	ABS thermoplastic with static dissipative properties; prevents static charges from damaging products, or impair their performance.	✓		Rigid	Black
	ABSi	Components made from Translucent Absi are penetrable by light. Monitoring of inside fluid movement is allowed.	✓		Rigid	Translucent Natural-Amber-Red
	PC	Polycarbonate. Material with high mechanical resistance, it is suitable for the creation of very strong and definitive models.	✓		Rigid	White
	PC-ISO	Polycarbonate ISO is an ideal material for the food, packaging and medical (certified for medical use) industry.	✓		Rigid	Translucent Natural, White
	PC-ABS	ABS and polycarbonate. Material that combines mechanical and thermal properties of the PC and the flexibility of ABS.	✓		Rigid	Black
	NYLON 12	Nylon 12 has an elongation at break greater than 100-300%. It has high impact resistance and excellent chemical resistance.	✓		Rigid	Black
	NYLON 6	Nylon 6 combines strength and toughness superior to other FDM Thermoplastics, for applications that require strong, customized parts and tooling that lasts longer and withstands rigorous functional testing.	✓		Rigid	Black
	PPSF	Polyphenylsulfone. Material highly resistant to heat, it can be used in autoclave and it can be sterilized with various methods.	✓		Rigid	Tan
	ULTEM® 9085	Thermoplastic resin with high mechanical and thermal properties. Ideal for parts subject to high stress. Flame retardant.	✓		Rigid	Tan, Black
ULTEM® 1010	Offering excellent strength and thermal stability with food contact and bio-compatibility certifications; it's ideal for food production tools, custom medical devices, aerospace and automotive applications.	✓		Rigid	Tan	

Suitable materials for definitive parts.

All functional tests can be performed on prototype parts as they were the final product. Suitable for finishes and surface treatments. Ideal for rapid manufacturing products.

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POLYJET	<b>Vero Blue</b>	Rigid pigmented photopolymer ideal for fine details and dental models.		✓	Rigid	Light Blue
	<b>Vero Black Plus</b>	Black pigmented photopolymer good for unpainted parts; can be finished with soft-touch effect.		✓	Rigid	Black
	<b>Vero Gray</b>	Rigid pigmented photopolymer ideal for highly detailed models even with thin walls, excellent surface finish.		✓	Rigid	Light Gray
	<b>Vero White Plus</b>	Rigid pigmented photopolymer, slightly flexible and suitable for creating expendable masters for lost-wax casting.		✓	Semi-Rigid	White
	<b>Vero Clear</b>	Transparent photopolymer, ideal for simulating PMMA, PC models or transparent methacrylate.		✓	Rigid	Transparent, Opal
	<b>ABS-Like</b>	Pigmented photopolymer particularly suitable for functional models (excellent stability), not suitable for walls <0.8 mm.	✓		Rigid	Light Green
	<b>Helios RGD 525 HT</b>	Very rigid pigmented photopolymer, suitable for applications where thermal stability and extreme detail are required.	✓	✓	Rigid	Ivory
	<b>RIGUR (Endur) RGD 450</b>	It's an advanced Simulated Polypropylene material that offers durability high performance and can produce impressive, dimensionally stable and beautiful surface finished prototypes.	✓	✓	Semi-Rigid	White
	<b>Full Cure 720</b>	Translucent photopolymer with high accuracy and excellent surface smoothness (certified for medical use).		✓	Rigid	Translucent Amber
	<b>Tango Plus</b>	Elastic photopolymers having 27 Shore A hardness (other hardnesses available).		✓	Elastic	Translucent Amber
	<b>Tango Black Plus</b>	Elastic photopolymers with 27 Shore A hardness (other hardness available).		✓	Elastic	Black
	<b>Tango Black</b>	Elastic photopolymer with 60 Shore A hardness (other hardnesses available).		✓	Elastic	Black
<b>Tango Gray</b>	Elastic photopolymer having 70 Shore A hardness (other hardnesses available).		✓	Elastic	Light Gray	
SLA	<b>Accura® 25</b>	Flexible plastic to simulate and replace CNC machined white polypropylene articles.	✓		Semi-Rigid	White
	<b>Accura® Bluestone™</b>	Composite material for manufacturing stable, high stiffness parts.	✓		Rigid	Blue
	<b>Accura® ClearVue™</b>	High clarity plastic (transparent) for a multitude of applications.		✓	Rigid	Transparent
	<b>Accura® Xtreme™</b>	Ultra tough grey plastic to replace CNC-machined polypropylene and ABS articles.		✓	Rigid	Gray
	<b>Somos® PerFORM</b>	Somos® PerFORM produces strong, stiff, high temperature resistant composite parts that are ideal for tooling and wind tunnel testing applications.	✓		Rigid	White