

**Impressio<sup>®</sup>**

3D PRINTING

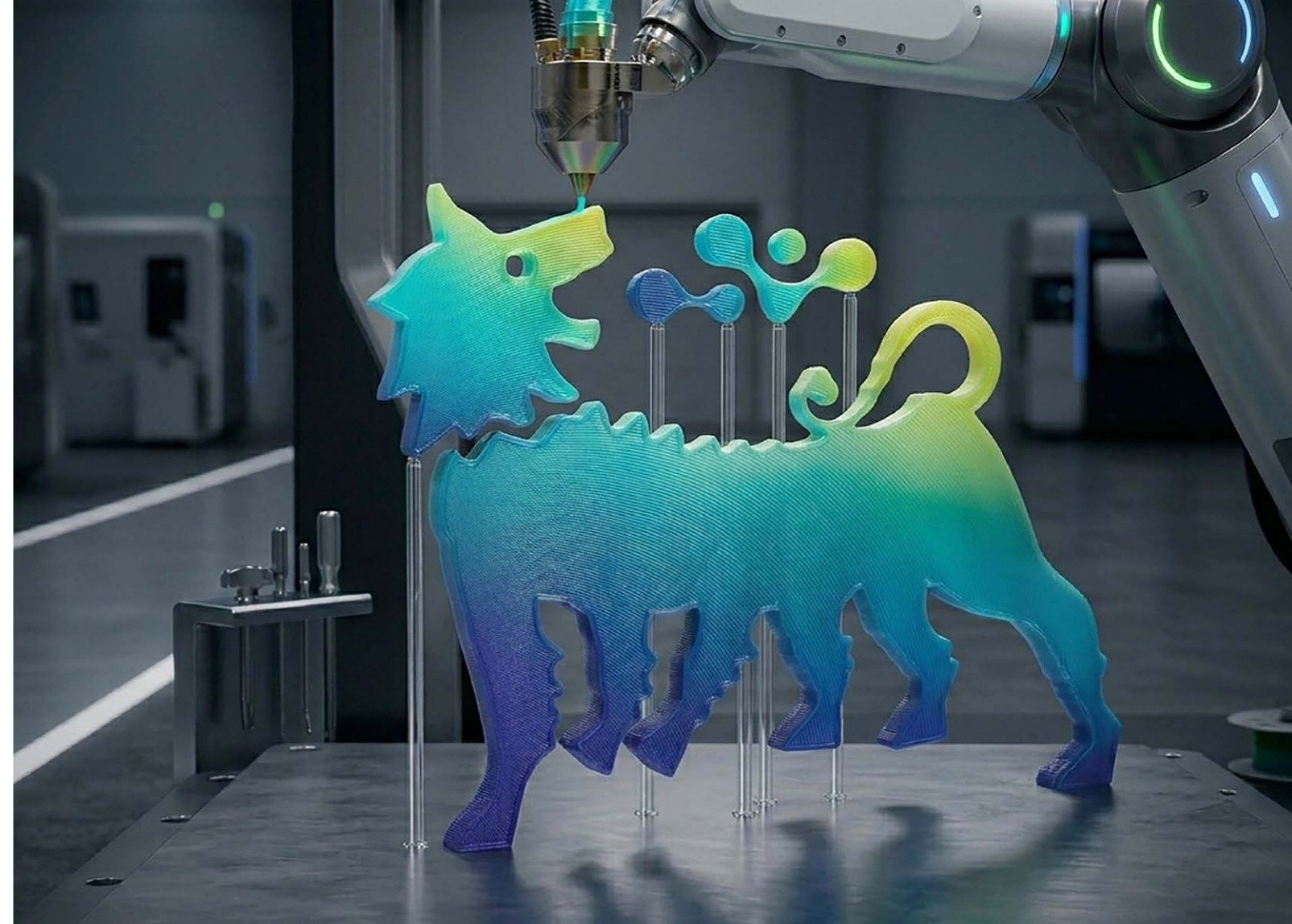


## Impressio® di Versalis

### Impressio® by Versalis




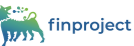


**Impressio®** è la gamma prodotti Versalis specificamente dedicata alla **stampa 3D** con tecnologia FDM e FGF. Il prodotto nasce dalle **sinergie** messe in campo da Versalis, alcuni hub del 3DP di **prestigiose università e aziende del settore** estrusione fili e stampanti 3D; questa collaborazione ne ha permesso la sperimentazione nelle applicazioni dell'additive manufacturing che vanno dalla realizzazione di filamenti di elevata precisione e qualità alla creazione diretta di **prototipi e oggetti di design**. Ideata attraverso una rigorosa messa a punto dei polimeri Versalis, la gamma Impressio® è frutto dell'accurata ottimizzazione delle proprietà chiave, che rende il materiale ideale per stampanti 3D "consumer" e "professional".

**Impressio®** is a product line specifically dedicated to **3D printing** with FDM and FGF technology, created by Versalis in **partnership with prestigious universities' 3D-printing research hubs and leading companies** in the field of extrusion wires and 3D printers. This collaboration has allowed experimentation in the applications of additive manufacturing, ranging from the production of high-precision and high-quality filaments to the direct creation of **prototypes and design objects**. Designed through a rigorous fine-tuning of Versalis polymers, the Impressio® range is the result of careful optimization of the key properties, which makes the material ideal for consumer and professional 3D printers.



BUSINESS AREA	MEDICAL	DESIGN	PROTOTYPING	INDUSTRY
Feature	<p>Soluzioni per stampa 3D per il settore medicale, progettate per garantire precisione, personalizzazione e qualità.</p> <p>3D printing solutions for the medical sector, designed to ensure precision, customization, and quality.</p>	<p>La stampa 3D al servizio del design prende forma con libertà creativa e con la possibilità di trasformare ogni idea in un oggetto unico e concreto.</p> <p>3D printing for design takes shape with creative freedom and the possibility of transforming every idea into a unique and concrete object.</p>	<p>La stampa 3D per la prototipazione permette la realizzazione rapida di modelli fisici complessi, garantendo elevata costanza dimensionale e flessibilità nella fase di sviluppo.</p> <p>3D printing for prototyping allows the rapid creation of complex physical models, ensuring high dimensional consistency and flexibility in the development phase.</p>	<p>Soluzioni di stampa 3D industriale per la produzione di componenti complessi, con elevata precisione e prestazioni costanti in applicazioni professionali.</p> <p>Industrial 3D printing solutions for the production of complex components, with high precision and consistent performance in professional applications.</p>
Recommended Products	<p>Impressio® ABS B10 P</p> <p>Impressio® ABS C06 P</p> <p>Impressio® HIPS E16 FR</p>	<p>Impressio® ABS</p> <p>Impressio® SAN</p> <p>Impressio® HIPS</p> <p>Impressio® Cogegum®</p>	<p>Impressio® ABS</p> <p>Impressio® PC-ABS</p> <p>Impressio® HIPS</p> <p>Impressio® Versalis Revive® PS</p> <p>MaterBi CE02A</p>	<p>Impressio® ABS</p> <p>Impressio® PC-ABS</p> <p>Impressio® HIPS</p> <p>Impressio® Cogegum®</p>



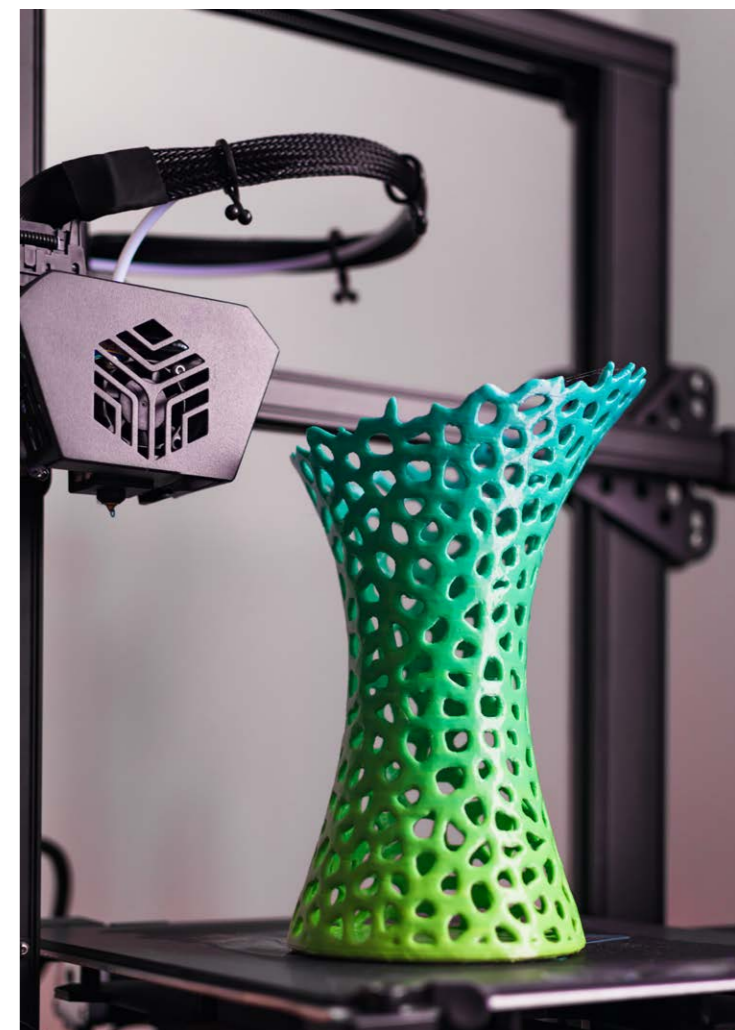
<p><b>Everyday Excellence</b></p> <p>Materiali affidabili per ogni prototipazione Reliable materials for everyday prototyping</p> 	<p><b>Mechanical Recycled</b></p> <p>Diamo una seconda vita alle plastiche attraverso il riciclo meccanico Giving plastics a second life through mechanical recycling</p> 	<p><b>Bio Attribution</b></p> <p>Polimeri sostenibili con origine bio attribuita certificata Sustainable polymers with certified bio-based origin</p> 
<p><b>Compounding of the Future</b></p> <p>Compound sostenibili nel rispetto delle policies di sostenibilità ambientale Sustainable compounds in compliance with environmental sustainability policies</p> 	<p><b>Biodegradable Bioplastic</b></p> <p>Bioplastica biodegradabile e compostabile di Novamont da materie prime vegetali Biodegradable and compostable bioplastic of Novamont from plant raw materials</p> 	<p><b>Chemical Recycled</b></p> <p>Materiali avanzati frutto dell'innovazione nel riciclo chimico attraverso la tecnologia Hoop® Advanced materials from chemical recycling innovation with Hoop® technology</p> 



## Realtà in evoluzione What's next?

La stampa 3D sta ridefinendo l'innovazione industriale, aprendo nuove opportunità per accelerare lo sviluppo prodotto e portare l'Additive Manufacturing dalla fase di prototipazione alla produzione su scala. In questo contesto, **Versalis si propone come partner industriale di riferimento**, mettendo a disposizione un **portfolio completo di materiali polimerici per la stampa 3D**, progettati per applicazioni avanzate e produzioni industriali ad alto valore aggiunto.

L'offerta Versalis combina **ampiezza di gamma, soluzioni tailor made per clienti e applicazioni specifiche** e un forte impegno verso la **sostenibilità**, con materiali efficienti, circolari e ad alte prestazioni. Grazie a consolidate **referenze tecniche**, a sviluppi con i **principali clienti industriali** e a partnership strategiche con i leader nella produzione di macchine per stampa 3D, Versalis contribuisce attivamente all'evoluzione della tecnologia, con un focus sulla **Large Format Additive Manufacturing (LFAM)**. La LFAM rappresenta un abilitatore chiave per l'**industrializzazione della stampa 3D**, consentendo la produzione di componenti di grandi dimensioni e favorendo l'integrazione dell'Additive Manufacturing nei processi produttivi industriali.



3D printing is redefining industrial innovation, opening new opportunities to accelerate product development and bring Additive Manufacturing from the prototyping phase to large-scale production. In this context, **Versalis** positions itself as a **reference industrial partner**, offering a **complete portfolio of polymer materials for 3D printing**, designed for advanced applications and high value-added industrial productions.

Versalis' gamma combines a **wide range** of products, **tailor-made solutions for clients** and **specific applications**, and a **strong commitment to sustainability**, with efficient, circular, and high-performance materials. Thanks to established **technical references**, developments with leading industrial clients, and **strategic partnerships with leaders in 3D printing machine production**, Versalis actively contributes to the evolution of technology, with a focus on **Large Format Additive Manufacturing (LFAM)**. LFAM represents a key enabler for the **industrialization of 3D printing**, allowing the production of large components and promoting the integration of Additive Manufacturing into industrial production processes.



IMPRESSIO® ABS	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Printing Setup			
				Proprietà premiante	Fluidity MFI [220°C/10kg]	Thermal resistance VICAT [50N-50°C/h]	Tensile strenght Yield [5mm/min]	Impact Resistance IZOD [23°C -4mm]	Enclosure	Nozzle Temperature	Bed Temperature	Fan speed
IMPRESSIO® ABS B10	<input type="checkbox"/> natural, <input checked="" type="checkbox"/> black 16001, <input type="checkbox"/> white 17178, <input type="checkbox"/> white anti UV U 31752	CA BA BCA	3D printing from pellets	high fluidity	24	98	46	20	highly recommended	230-270°C	80-110°C	0-20%
IMPRESSIO® ABS B10 P	<input type="checkbox"/> natural, <input type="checkbox"/> white 31740	-	For filament production and 3D printing from pellets	pharma*	25	98	47	14	SI - hot chamber	230-270°C	80-110°C	0-20%
IMPRESSIO® ABS C06	<input type="checkbox"/> natural	CA BA BCA	For filament production and 3D printing from pellets	easy flow	15	103	48	17	SI - hot chamber	230-270°C	80-110°C	0-20%
IMPRESSIO® ABS C06 P	<input type="checkbox"/> natural	CA BA BCA	For filament production and 3D printing from pellets	pharma*	15	103	48	17	SI - hot chamber	230-270°C	80-110°C	0-20%
IMPRESSIO® ABS C02	<input type="checkbox"/> natural	CA BA BCA	3D printing from pellets	good meccanichal performances	4	103	44	19	highly recommended	240-290°C	80-110°C	0-20%
IMPRESSIO® ABS D11	<input type="checkbox"/> natural	CA BA BCA	3D printing from pellets	mattness	8	101	35	9,5	highly recommended	240-260°C	80-110°C	0-20%
IMPRESSIO® ABS G02	<input type="checkbox"/> natural	CA BA BCA	3D printing from pellets	excellent meccanichal performances	4,5	103,5	46	28	highly recommended	240-290°C	80-110°C	0-20%
IMPRESSIO® ABS I02	<input type="checkbox"/> natural	CA BA BCA	3D printing from pellets	outstanding meccanichal performances	4,5	100	36	43	highly recommended	240-290°C	80-110°C	0-20%
IMPRESSIO® ABS A17 FR	<input type="checkbox"/> natural, <input type="checkbox"/> white anti UV U31240	-	3D printing from pellets	UL-94 V0*	14	99	44	19	highly recommended	200-220°C	80-110°C	0-20%
IMPRESSIO® ABS A08	<input type="checkbox"/> natural, <input checked="" type="checkbox"/> black 16177	-	3D printing from pellets	high thermal resistance	4,5	113	46	14	highly recommended	200-220°C	80-110°C	0-20%

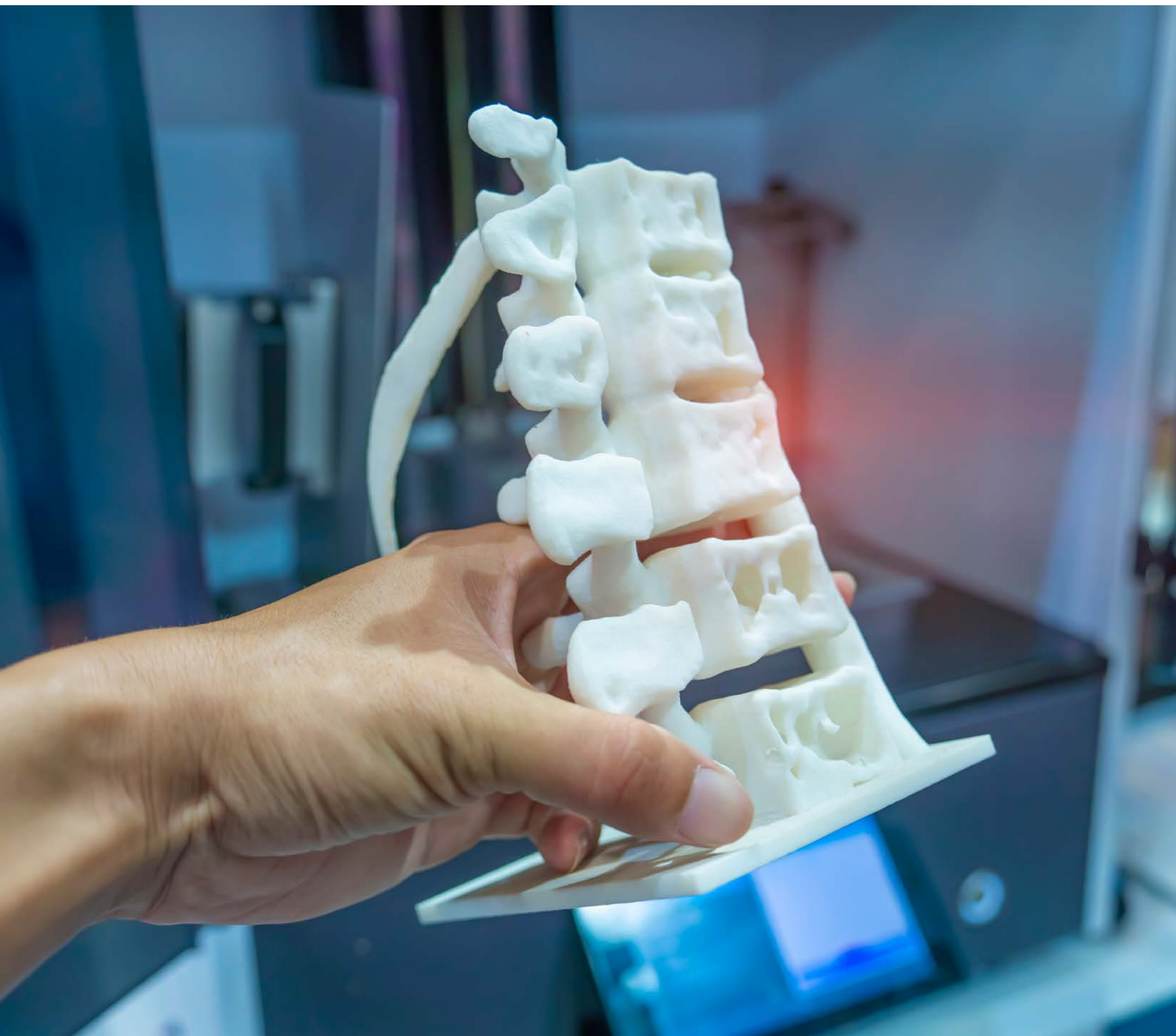
\*certifications ongoing

IMPRESSIO® PCA	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Printing Setup			
				Proprietà premiante	Fluidity MFI [260°C/ 5kg]	Thermal resistance VICAT [50N-120°C/h]	Tensile strenght Yield [5mm/min]	Impact Resistance IZOD [23°C -4mm]	Enclosure	Nozzle Temperature	Bed Temperature	Fan speed
IMPRESSIO® PCA C14	<input type="checkbox"/> natural, <input checked="" type="checkbox"/> black 39064	-	For filament production and 3D printing from pellets	PC-ABS alloy	15	125	50	47	SI - hot chamber	240-290°C	100-110°C	0-10%

IMPRESSIO® SAN	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Printing Setup			
				Proprietà premiante	Fluidity MFI [220°C/10kg]	Thermal resistance VICAT [50N-50°C/h]	Tensile strenght Yield [5mm/min]	Impact Resistance IZOD [23°C -4mm]	Enclosure	Nozzle Temperature	Bed Temperature	Fan speed
IMPRESSIO® SAN F02	<input type="checkbox"/> natural 2000, <input type="checkbox"/> water clear 2050, <input type="checkbox"/> light blue 2030, <input checked="" type="checkbox"/> opaque black 3909	CA BA BCA	3D printing from pellets	high fluidity	30	105	-	-	SI - hot chamber	230-260°C	80-100°C	0-10%
IMPRESSIO® SAN E02	<input type="checkbox"/> natural 2000	CA BA BCA	3D printing from pellets	very high fluidity	70	104	-	-	SI - hot chamber	230-260°C	80-100°C	0-10%

IMPRESSIO® HIPS	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Printing Setup			
				Proprietà premiante	Fluidity MFI [200°C/ 5kg]	Thermal resistance VICAT [50N- 50°C/h]	Tensile strenght Yield [5mm/ min]	Impact Resistance IZOD [23°C -4mm]	Enclosure	Nozzle Temperature	Bed Temperature	Fan speed
IMPRESSIO® HIPS B16	<input type="checkbox"/> natural	CA BA BCA	For filament production and 3D printing from pellets	easy flow	15	85	26	5	highly recommended	230-250°C	80-100°C	0-20%
IMPRESSIO® HIPS E05	<input type="checkbox"/> natural	CA BA BCA	For filament production and 3D printing from pellets	high impact	4	91	22	10	highly recommended	230-250°C	80-100°C	0-20%
IMPRESSIO® HIPS D17	<input type="checkbox"/> natural	CA BA BCA	For filament production and 3D printing from pellets	high stiffness	7,5	89	22	8	highly recommended	230-250°C	80-100°C	0-20%
IMPRESSIO® HIPS E16 FR	<input type="checkbox"/> natural, <input checked="" type="checkbox"/> black 39105, <input type="checkbox"/> white 31266	-	For filament production and 3D printing from pellets	UL 94 V0*	5	90	23	6	highly recommended	230-250°C	80-100°C	0-20%

\*certifications ongoing



IMPRESSIO® Versalis Revive® PS	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Printing Setup			
				Proprietà premiante	Fluidity MFI [200°C/ 5kg]	Thermal resistance VICAT [50N- 50°C/h]	Tensile strenght Yield [5mm/ min]	Impact Resistance IZOD [23°C -4mm]	Enclosure	Nozzle Temperature	Bed Temperature	Fan speed
IMPRESSIO® Versalis Revive® PS Z10	<input type="checkbox"/> Natural recycled**	Mechanical Recycled	3D printing from pellets	Sustainable from mechanical recycled PCR	6,5	89	22	6	highly recommended	230-250°C	80-100°C	0-20%

\*\*le proprietà possono variare in termini di colore e performance

MATER BI CE02A	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Printing Setup			
				Proprietà premiante	Fluidity MFI [190°C/ 2,16kg]	Thermal resistance HDT	Tensile strenght Break [5mm/min]	Impact Resistance IZOD [23°C -4mm]	Enclosure	Nozzle Temperature	Bed Temperature	Fan speed
MATER BI CE02A	<input type="checkbox"/> Neutro	Biodegradabile	3D printing from pellets	For filaments production and 3D printing from pellets	5	54	27	-	highly recommended	180-200°C	40°C	20-50%

IMPRESSIO® COGEGUM® AFR-3D 800 UV	Versioni colore	Versioni più sostenibili	Tecnologia stampa 3D	3D Printing grades / Tipi per stampa 3D					Processing Setup			
				Proprietà premiante	Fluidity MFI [150°C/ 2,16kg]	Density at 23°C	Tensile Strength at break [250mm/min]	Tensile Elongation at break [250mm/min]	Hardness, Shore D	Temperature setting		
IMPRESSIO® COGEGUM® AFR-3D 800 UV	<input type="checkbox"/> natural (white)	-	3D printing from pellets	Halogen Free Flame Retardant (HFFR) compound UV/VIS resistance (according to ISO 4892-2:2006 method A)	5,1	1,52	12	190	53	-	130-180°C	-



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