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Material				Rapid PLA +						
Property	Units	PLA Coloured	PLA + Coloured	Coloured	PLA PRO	PLA MATT	Galaxy PLA	Silk PLA	PLA CF	
Print Settings										
Drying Temp	°C	55 ± 5	55 ± 5	55 ± 5	55 ± 5	55 ± 5	55 ± 5	55 ± 5	55 ± 5	
Temp & Humidity	°C & %RH	<50 <20%	<50 <20%	<50 <20%	<50 <20%	<50 <20%	<50 <20%	<50 <20%	<50 <20%	
Nozzle Temp Bed Temp	°C	190-230 35-65	200=230 35-65	200-230 35-65	180-210 35-65	190-230 35-65	190-230 35-65	190-230 35-65	190-230 35-65	
Plate Type	C	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	
Print Speed	mm/s	<300	<280	<600	<300	<300	<280	<220	<300	
Physical Properties										
Density	g/cm³	1.26	1.3	1.23	1.24	1.26	1.21	1.25	1.24	
Melt Temp	°C	158	161	160	162	163	162	164	163	
VICAT Soft Temp	°C	62	63	62	62	63	62	58	64	
Heat Deflection Temp	°C	57	56	57	56	55	56	54	56	
Mechanical Properties										
Tensile Strength	Мра	38 ± 3	38 ± 2	39 ± 2	32 ± 2	30 ± 1	38 ± 3	26 ± 3	39 ± 3	
Breaking Elongation XY	%	10.5% ± 2.1%	7.9% ± 1.6%	8.5% ± 1.2%	14.1% ± 2.1%	7.9% ± 1.1%	8.7% ± 1.2%	9.7% ± 2.3%	7.5% ± 1.3%	
Bending Modulus XY	MPa MPa	2993 ± 182 72 ± 5	2979 ± 156 74 ± 4	2846 ± 175 71 ± 6	2964 ± 169 66 ± 3	2996 ± 159 75 ± 3	2719 ± 172 75 ± 2	2816 ± 136 79 ± 2	3341 ± 172 78 ± 2	
Bending Strength Impact Strength	kJ/m²	66.2 ± 3.9	74 ± 4 65.5 ± 3.6	71 ± 6 50.4 ± 2.8	30.2 ± 2.3	75 ± 3 29.3 ± 2.9	75 ± 2 56.3 ± 3.5	79 ± 2 25.5 ± 2,2	78 ± 2 24.7 ± 1.5	
impact strength	NJ/III	00.2 ± 3.3	05.5 ± 5.0	JU.7 ± 2.0	JU.2 ± 2.3	23.3 ± 2.3	JU.J ± 3.J	23.3 ± 2,2	24.7 ± 1.3	
		Smooth and fine	Sharp details and	Fast printing and high	Fast printing and high	Matte finish, uniform	Sleek glossy finish	Sleek glossy finish	Carbon fiber	
		finish, easy to print	high quality	compatibility	compatibility	& refined appearance	that sparkles beautifully	that sparkles beautifully	reinforced, higher strength and stiffness	
		Highly compatible	Highly compatible	Smooth and glossy	Smooth and refined	Wide vibrant color	Dreamy galaxy	Sleek glossy finish	Textured surface	
		and beginner-friendly	and easy to print	surface	finish	selection	visuals, stunning aesthetic	that sparkles beautifully	finish, minimal layer lines	
		Wide vibrant color	Wide vibrant color	Wide vibrant color	Wide vibrant color	Highly compatible	Highly compatible	Sleek glossy finish	Minimal shrinkage,	
		selection	selection	selection	selection	and easy to print	and easy to print	that sparkles beautifully	higher dimensional accuracy	
		Plant-based and	Biodegradable and	Biodegradable and	Biodegradable and	Biodegradable and	Biodegradable and	Sleek glossy finish	Highly compatible	
		biodegradable	eco-friendly	eco-friendly	eco-friend	eco-friendly	eco-friendly	that sparkles	and easy to print	
Material	Units	Rapid PETG	PETG PRO	PETG-CF	PETG-GF	TPU-95A	ASA	ABS	PAHT-CF	PC
Property	Ullits	Napiu FLIG	FLIGINO	FLIG-CF	r Lid-dr	IFU-35A	ASA	ABS	FAITI-CF	FC FC
Print Settings										00 . 5
Drying Temp	°C	70 ± 5	70 ± 5	70 ± 5	70 ± 5	70 ± 5	80 ± 5	70 ± 5	80 ± 5	80 ± 5
Temp & Humidity	°C & %RH	<70 <20%	<70 <20%	<70 <20%	<70 <20%	<70 <20%	<80 <20%	<80 <20%	<70 <20%	<50 <20%
Nozzle Temp	°C	240-270	230-260	240-270	240-270	220-240	240-270	250-280	260-290	260-290
Bed Temp	°C	65-70	65-70	90-110	65-75	30-45	90-100	90-100	100-120	90-110
Plate Type	/-	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other	Textured or Other <100
Print Speed mm/s <600 <270 <220 <220 <60 <270 <220 <100 Physical Properties										
Density	g/cm³	1.29	1.27	1.29	1.3	1.16	1.09	1.05	1.08	1.2
Melt Temp	°C	216	218	226	226	188	214	216	225	228
VICAT Soft Temp	°C	70	71	83	83	N/A	102	86	225	119
Heat Deflection Temp	°C	72	73	73.9	73.9	N/A	99	85	193	109
Mechanical Properties										
Tensile Strength	Мра	42 ± 2	40 ± 2	51 ± 8	50 ± 3	16 ± 2	35 ± 2	35 ± 1.5	87 ± 3	56 ± 2
Breaking Elongation XY	%	8.9% ± 1/5%	7.6% ± 1.1%	9.6% ± 1.0%	7.9% ± 1%	>500%	9.4% ± 2.3%	7.2 ± 0.2	14.2% ± 1.1%	8.8% ± 1.9%
Bending Modulus XY	MPa	2097 ± 173	2111 ± 119	3340 ± 21	3345 ± 88	124.8 (no fracture)	1905 ± 131	2484 ± 115	5089 ± 54	2728 ± 113
Bending Strength	MPa	68 ± 2	70 ± 2	85 ± 2	83 ± 3		65 ± 4	68 ± 2	138 ± 3	114 ± 5
Impact Strength	kJ/m²	87.6 ± 4.2	68.5 ± 2.5	70.7 ± 6.2	51.9 ± 5.2		40.1 ± 3.7	54.9 ± 3.2	86.4 ± 3.4	797 ± 3.2
			Low shrinkage,	High strength and	Low shrinkage,	High toughness and	UV and weather	Water and heat-	Excellent	
		High-speed printing, increased efficiency	superior dimensional	wear resistance,	superior dimensional	elasticity, resistant to	resistant for long-	resistant, engineered	performance under	Strong, tough, and impact resistant
Goto "Sort Filament		Water and weather	stability Water and weather	excellent toughness	stability	impacts Soft and freeze	term outdoor use Engineering-grade	for industrial use Tough, impact-	high temperatures High strength and	Low warpage,
Properties" Sheet for Sort		resistant for outdoor	resistant for outdoor	Matte surface finish, minimal layer lines	Matte surface finish, minimal layer lines	resistant, performs	material, water and	resistant, and built to	rigidity, abrasion	excellent dimensional
Capabilities - Note Not Available in PDF		use Tough and impact-	durability	Low shrinkage,	Impact resistant and	well in cold	heat resistant Tough and impact-	last	resistant Low shrinkage,	stability Water and heat
Note Not Available in PDF Version		resistant for lasting	High toughness and impact strength	precise dimensional	durable, suitable for	Water and oil resistant, secure seal	resistant for reliable		precise dimensional	resistant, fast printing
version		durability Highly compatible	Highly compatible	accuracy High compatibility,	industrial use		durability		accuracy	capability
		and easy to print	and easy to print	easy to print						
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