MATERIALS & FINISHES

GRAPHITE
ADDITIVE MANUFACTURING

	SLS			MJF			SLA	
Key Properties	**SinterWorx G4**	**SinterWorx C6**	**PP**	**PA12**	**PA11**	**TPU**	**PerFORM**	**WaterShed**
Density (g/cm³)	1.10	1.10	0.90	1.01	1.05	1.10	1.61	1.12
Strength (MPa)	58	76	25	48	52	7	68 (*80)	50
Stiffness (MPa)	4200	7100	1000	1800	1800	75	10500 (*9800)	2,770
Elongation at Break (%)	6	4	30	15	35	220	1.1% (*1.2%)	15%
Resolution (microns)	100	100	100	80	80	80	100	100
Temperature Resistance (°C)	170	170	120	170	170	120	132 (*268)	45
Finishes								
Vapor Smoothed (Sealed)	✓	✓		✓	✓	✓		
Hand Sealing	✓	✓						
Sanded	✓	✓					✓	✓
Painting	✓	✓						
RF Shieldding								
Plating	✓	✓		✓	✓		✓	✓
Clear Lacquered	✓	✓	✓	✓	✓	✓		✓
Clear Polishes								✓
Painted							✓	✓

	SLM - METALS				
	Aluminium AlSi10Mg	**Inconel 718**	**Stainless Steel 316L**	**Titanium Ti64**	**Tool Steel**
Density (g/cm³)	2.67	8.15	7.90	4.41	8.05
Stiffness (MPa)	70000	200000	185000	115000	201000
Strength (MPa)	460	1375	640	1070	2107
Elongation at Break (%)	11	12	40	14	4
Yield Point (MPa)	230	1145	530	1010	2023
Thermal Conductivity W/(m.K)	173	6.5	16	6.7	14
CNC Machined	✓	✓	✓	✓	✓
Cosmetic (Sand Blasted)	✓	✓	✓	✓	✓

We offer additional materials to solve your complex design challenges. Speak to us about your project requirements or to request a sample of any of our available materials and finishing combinations.

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