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3D Printing Materials Comparison Chart

★ Excellent ■ Fair – Unknown
● Good ✕ Not Recommended

Technology	SL	SL	MJF	MJF	SLS	DLS™	DLS™	DLS™	DLS™	DLS™	DLS™	FFF
Material	EvoLVe 128	Watershed XC 11122	Nylon PA 11	Nylon PA 12	Nylon PA 12 GF	RPU 70	EPX 82	EPX 86 FR (V-0)	RPU 130	EPU 40 (Rubber)	SIL 30 (Silicone)	Onyx
Prototype master patterns (1 offs)	★	★	✕	✕	✕	■	■	✕	✕	✕	✕	✕
Production/end use applications	✕	✕	★	★	●	★	★	★	★	★	★	★
Manufacture of small, highly detailed parts	●	●	■	■	■	★	★	★	★	★	★	✕
Manufacture of medium/large parts	★	★	●	●	●	✕	✕	✕	✕	✕	✕	✕
Dimensional Accuracy	★	★	●	●	●	★	★	★	★	★	★	●
Level of fine detail	★	★	●	●	●	★	★	★	★	★	★	■
Temperature resistance	✕	✕	●	★	★	●	★	★	★	■	■	★
Flexibility	■	✕	★	✕	✕	■	✕	✕	●	★	★	✕
Strength in 'Z' axis	■	■	★	★	●	★	★	★	★	★	●	★
Impact resistance	■	✕	★	●	●	■	●	●	★	–	–	★
Stiffness	■	●	■	★	★	●	★	★	■	✕	✕	★
Chemical resistance	■	■	●	●	●	●	★	★	★	■	■	★
Low moisture absorption	●	★	●	●	■	●	★	★	★	●	●	■
Colour range (dyed)	–	–	■	■	●	–	–	–	–	–	–	✕
Biocompatibility	✕	★	★	★	✕	★	★	★	★	★	★	✕
IMDS (automotive approved)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-