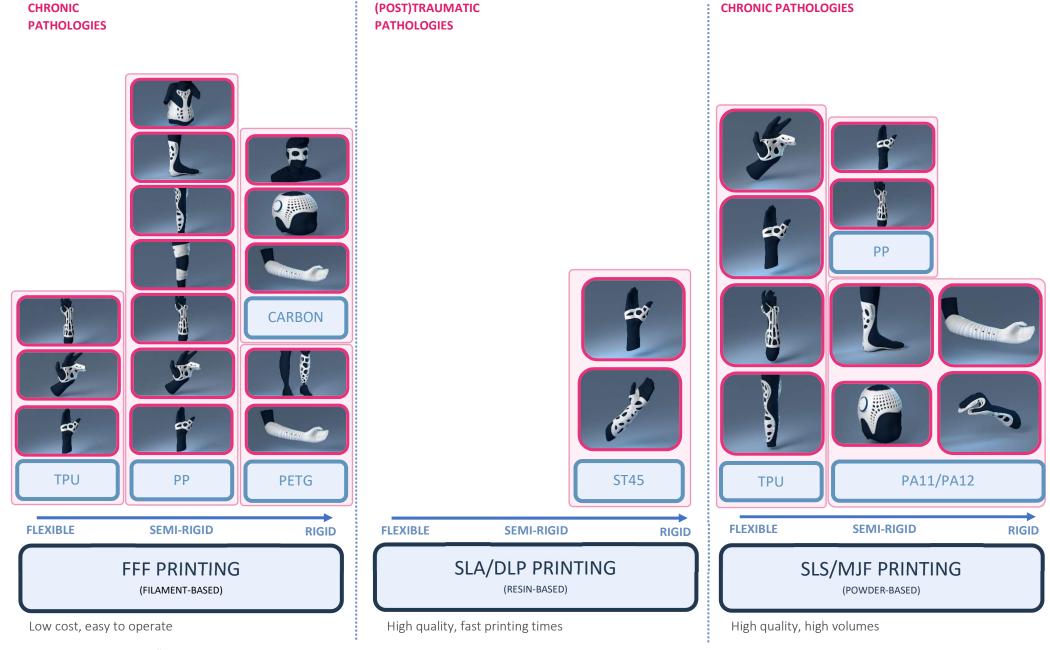
Finding the suitable material for every O&P application.









Small investment

Large investment

Materials Selection Table



	FFF (Filament)					SLS/MJF (Powder)		SLA/DLP (Resin)
Materials	PP	PET Carbon reinforced	PLA	PETG	TPU	PA11 (Nylon 11)	TPU	ST45
Color	Black, White Translucent	Black, White	Black, White	Black, White	/	/	/	Clear, Black, Translucent
Durability	••••	••••	••••	••••	••••	••••	••••	••••
Flexibility	••••	••••	••••	••••	••••	••••	••••	••••
Surface Finish	••••	••••	••••	••••	••••	••••	••••	••••
Printing accuracy	••••	••••	••••	••••	••••	••••	••••	••••
Impact Resistant	No	No	No	No	No	Yes	No	Yes
Water Resistant	Yes	Yes	No	Yes	No	Yes	No	No
Density	0.9 g/cm ³	1.37 g/cm³	1.24 g/cm³	1.32 g/cm³	1.21 g/cm³	1.05 g/cm³	0.78 g/cm³	1.2 g/cm³
Properties	Very polyvalent Low density Good finishing High elasticity Good resistance to fatigue	Very strong and stiff Dimensional stability Excellent finish	Precise printing Stiff, good strength Low melting point Easy to print Biodegradable	Waterproof Very precise printing Food approved 100% recyclable	Very flexible and soft Chemical and abrasion-resistant	Lightweight Flexible High impact resistance From 100% renewable source Biocompatible	Very flexible Complex designs High elasticity and flexibility	Biocompatible Great details High strength, toughness, impact resistance Fast printing
Recommended Applications	Most of Spentys products (hand and forearm splints)	Masks Helmets Prosthetics	Moulds	Prosthesis covers	Complex designs	Prosthetics Insoles Moulds	Moving and assembled parts Leg splints	Hand and forearm splints for traumatic applications (fast printing time)