3DVISION TECHNOLOGIES

Materials Guide - FDM

Material performance rating based on Application and Usages
Good *
Better **
Best ***

Common Application and Usages	ABSplus	ABSi	ABS-M30	ABS-ESD7	PC-ABS	ABS-M30i	ASA	PC	PC-ISO	FDM Nylon12	Ultem 9085 Resin	Ultem 1010	PPSF / PPSU	PLA
Visual and Aesthetic Models	**	*	**	*	**	*	***	*	*	*	*	*	*	**
Form and Fitment Testing	**	**	**	*	***	**	***	*	*	*	**	**	*	**
Rigid-Opaque Part Functional Testing	***	**	***	*	***	**	***	**	**	***	***	***	**	***
Rigid-Translucent / Transparent Parts	*	**	*			*	*	**	**		*	*	*	***
Flexible / Rubber Part Teseting										*				
Non-Ambient Temperature Part Testing	*	*	*	*	**	*	*	**	**	*	***	***	***	*
Tooling / Patterns - Metal	**	*	**		*	*	**	***		*	***	***	***	**
Tooling / Patterns - Composites	**	**	**	*	**	*	**	***	*	*	***	***	***	**
Tooling / Patterns - Plastics	**	*	**	*	**	*	**	***	**	*	***	***	***	**
Electrostatic Parts				***										
Medical Bio-compatible						***			***			***	**	
Food Safety Bio-compatible												***		
End-Use Parts	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Finishing - Coatings and Coloring	**	***	**	*	**	**	**	**	*	**	***	***	**	**
Shape Changing and Surface Improvement	***	***	***	***	***	***	***	***	***	*	***	***	**	**
Fastening	**	**	**	**	**	**	**	**	**	***	**	**	*	**
Printers that use material	Mojo uPrint SE uPrint SE Plus Dimension Elite Dimension 1200 BST Dimesion 1200 SST Fortus 250	Fortus 400 Fortus 900	Fortus 360 Fortus 400 Fortus 900 Fortus 380 Fortus 450 F170 F270 F370	Fortus 400 Fortus 900 Fortus 380 Fortus 450	Fortus 360 Fortus 380 Fortus 400 Fortus 450 Fortus 900 F370	Fortus 400 Fortus 900 Fortus 380 Fortus 450	Fortus 400 Fortus 900 Fortus 380 Fortus 450 Fortus 360 F170 F270 F370	Fortus 400 Fortus 900 Fortus 380 Fortus 450 Fortus 360	Fortus 400 Fortus 900 Fortus 380 Fortus 450	Fortus 400 Fortus 900 Fortus 380 Fortus 450 Fortus 360	Fortus 400 Fortus 900 Fortus 450	Fortus 450 Fortus 900	Fortus 400 Fortus 900	F170 F270 F370