



FDM Material Selection Guide

APPLICATIONS AND USAGES	ABS TM	ABS-M30 TM	ABS-ESD7 TM	PC-ABS	ABS-M30I TM	ASA TM	PC	PC-ISO TM	FDM NYLON 12 TM	ULTEM TM 9085 RESIN	ULTEM 1010 RESIN	PPSF
Visual and Aesthetic Models	*	**	*	**	*	***	*	*	*	*	*	*
Form and Fitment Testing	**	**	*	***	**	***	*	*	*	**	**	*
Rigid-Opaque Part Functional Testing	**	***	*	***	**	***	**	**	***	***	***	**
Rigid-Translucent/Transparent Parts	**	*			*	*	**	**		*	*	*
Flexible/Rubber Part Testing									*			
Non-Ambient Temperature Part Testing	*	*	*	**	*	*	**	**	*	***	***	***
Tooling/Patterns - Metal	*	**		*	*	**	***		*	***	***	***
Tooling/Patterns - Composites	**	**	*	**	*	**	***	*	*	***	***	***
Tooling/Patterns - Plastics	*	**	*	**	*	**	***	**	*	***	***	***
Electrostatic Parts			***									
Medical Bio-compatible					***			***			***	**
End-Use Parts	***	***	***	***	***	***	***	***	***	***	***	***
Finishing - Coatings and Coloring	***	**	*	**	**	**	**	*	**	***	***	**
Shape Changing and Surface Improvement	***	***	***	***	***	***	***	***	*	***	***	**
Fastening	**	**	**	**	**	**	**	**	***	**	*	*

* = Good ** = Better *** = Best



© 2015 Stratasys. All rights reserved. Stratasys, Stratasys logo, For A 3D World and FDM are registered trademarks of Stratasys Inc. ABSI, ABS-ESD7, ABS-M30, ABS-M30I, ABSI, ASA, FDM Nylon 12 and PC-ISO are trademarks of Stratasys Inc. ULTEMTM is a registered trademark of SABIC or affiliates. All other trademarks are the property of their respective owners, and Stratasys assumes no responsibility with regard to the selection, performance or use of these non-Stratasys products. Product specifications subject to change without notice. Printed in the USA. FDMMaterialSelectionGuide-A4-0815
 The information contained herein is for general reference purposes only and may not be suitable for your situation. As such, Stratasys does not warrant this information. For assistance concerning your specific application, consult a Stratasys application engineer. To ensure user safety, Stratasys recommends reading, understanding and adhering to the safety and usage directions for all Stratasys and other manufacturers' equipment and products. In addition, when using products like paints, solvents and epoxies, Stratasys recommends that users perform a product test on a sample part or a non-critical area of the final part to determine product suitability and prevent part damage.