



PolyJet Material Selection Guide

MATERIAL MIMIC	RIGID OPAQUE/ COLOR (VERO™)	TRANSPARENT RIGID	HIGH TEMP	DURUS™	RIGUR™	DIGITAL ABS™	RUBBER-LIKE/ FLEXIBLE (TANGO™)	RIGID DIGITAL	RUBBER-LIKE DIGITAL	BIO-COMPATIBLE
Polypropylene – PP	*	*		***	***	**		**		*
High-Density Polyethylene – HDPE (PEHD)				***	***			**		
Polystyrene – PS	*	**		***	***	**		**		**
Poly Methyl Methacrylate – PMMA (Plexiglas)		***								***
Polycarbonate – PC		**								**
Acrylonitrile Butadiene Styrene – ABS	**	**	*	*	**	***		**		**
High-Impact Polystyrene – HIPS	**	**	*	*	**	***		**		**
Styrene-Based Thermoplastic Elastomers							***		***	
Ethylene Propylene Diene Monomer M-class – EPDM Rubber							**		**	
MECHANICAL/THERMAL PROPERTIES	RIGID OPAQUE/ COLOR (VERO)	TRANSPARENT RIGID	HIGH TEMP	DURUS	RIGUR	DIGITAL ABS	RUBBER-LIKE/ FLEXIBLE (TANGO)	RIGID DIGITAL	RUBBER-LIKE DIGITAL	BIO-COMPATIBLE
Thermal Resistance – HDT (Heat Deflection Temperature)	**	**	***	*	**	***		**		**
Toughness	*	*	*	**	**	***		*		*
Elongation at Break	*	*	*	**	**	**	***	*	***	*
PART COLORS	RIGID OPAQUE/ COLOR (VERO)	TRANSPARENT RIGID	HIGH TEMP	DURUS	RIGUR	DIGITAL ABS	RUBBER-LIKE/ FLEXIBLE (TANGO)	RIGID DIGITAL	RUBBER-LIKE DIGITAL	BIO-COMPATIBLE
Color	White, Gray, Blue, Black, Wide Variety of Colors	Transparent, Transparent Colors	White	Milky White	White	Green, Ivory	Translucent, Gray and Black	Varying Gray Scale and Opacity	Varying Gray Scale and Opacity	Transparent, Rose

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

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APPLICATIONS AND USAGES	RIGID OPAQUE/ COLOR (VERO)	TRANSPARENT RIGID	HIGH TEMP	DURUS	RIGUR	DIGITAL ABS	RUBBER-LIKE/ FLEXIBLE (TANGO)	RIGID DIGITAL	RUBBER-LIKE DIGITAL	BIO-COMPATIBLE
Visual and Aesthetic Modeling	***	***	***	**	***	***	***	***	***	***
Form and Fit Testing	***	**		**	***	***	**	**	**	**
Rigid Opaque Part Functional Testing	**		*	***	***	***		**		**
Rigid Translucent/Transparent Parts		***								***
Flexible/Rubber Part Testing							***		***	
Non-Ambient Temperature Part Testing	*	*	***	*	*	***		**		*
Tooling/Patterns	**	**	*	*	**	***		**		**
Medical Tooling										***
Production Parts	*	*	*	*	*	**	*	*	*	**
Finishing – Coatings and Coloring	***	***	***	**	***	***	**	***	**	***
Shape Changing and Surface Improvement	***	***	**	**	***	***	**	***	**	***
Fastening and Gluing	***	***	***	**	***	***	**	***	**	***

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3D Printing Total Solution (주) 프로토테크

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