



# Comparison of Polyjet Materials

	ASTM Test	Test Units	Rubber-Like Shore A 27	Rubber-Like Shore A 40	Rubber-Like Shore A 50	Rubber-Like Shore A 60	Rubber-Like Shore A 70	Rubber-Like Shore A 85	Rubber-Like Shore A 95	Rigid Black	Rigid White	Rigid Clear	Flexible PP-Like
Objet Brand Name			TangoPlus	DM_9840	DM_9850	DM_9860	DM_9870	DM_9885	DM_9895	VeroBlack	VeroWhite	FullCure 720	Durus
Tensile Strength at Yield	D638M	psi	211 (@ Break)	145	145	435	435	870	2,900	7,352	7,221	8,744	3,089
Elongation at Break	D638M	%	218	160	140	90	60	55	30	18	20	20	44
Flexural Strength	D790M	psi								11,542	10,817	10,991	4,814
Flexural Modulus	D790M	psi								330,020	309,865	249,110	148,785
Izod Impact- Notched	D256A	ft-lb/in								0.45	0.45	0.4	0.83
Hardness			Shore A 27	Shore A 40	Shore A 50	Shore A 60	Shore A 70	Shore A 85	Shore A 95	Shore D 83	Shore D 83	Shore D 81	Shore D 76
Tensile Tear Resistance		lbs/in	20	29	34	46	74	149	263	n/a	n/a	n/a	n/a
Deflection Temperature	D648	°F@ 66 psi								117	118	119	98
Water Absorption	D570-98	%								1.47	1.47	1.53	1.69
General Applications	Simulate rubber and "Soft Feel", Multimaterial overmold simulations, gaskets									Form/Fit, Tooling Patterns		Snap-Fits	

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