

# ORACLE MANUFACTURING, LLC

Your Global Outsourcing Authority



	ASTM Test	Test Units	SLA 9120	SLA 11120 (WaterShed)	SLA 12120 (Prototherm)	SLA 14120	SLS GF Accuform (GF Nylon)
Tensile Strength at Yield	D638M	psi	4,600	7,303	11,200	6,630	7,100
Elongation at Yield	D638M	%	20	3.4	n/a	3.5	n/a
Elongation at Break	D638M	%	n/a	16.0	4.5	7.9	6.0
Flexural Strength	D790M	psi	6,350	9,954	15,000	9,240	–
Flexural Modulus	D790M	psi	205,000	320,000	444,000	310,000	625,000
Izod Impact - Notched	D256A	ft-lb/in	0.95	0.5	0.32	0.44	125
Deflection Temperature	D648	°F @ 66 psi	134	123	259	127	370
Water Absorption	D570-98	%	Not Tested	0.25 - 0.35	0.24	–	Not Tested
Density	–	g/cm3 at 220 F	Not Tested	1.12	1.15	1.1	Not Tested
Characteristics			Polypropylene-like High Flexibility	Waterclear/Flexible Non-Hydroscopic	High Heat/High Strength Non-Hydroscopic	ABS-Like Properties Non-Hydroscopic	High Heat High Strength Best Impact Strength Best High Heat+Strength
Specific Applications			Polypropylene-like Snap-fits Flex Requirements	Optical Requirements QuickCast Patterns Water Flow Analysis	Air Flow Testing Underhood Applications	Functional Assemblies Appearance Models	High Heat High Strength Living hinges
General Applications			Form/Fit Tooling Patterns Some Functional Testing				Form/Fit Functional Testing Living hinges

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