SYNECTIC® PRODUCT DEVELOPMENT | SUBSIDIARY OF MACK

Formlabs SLA Spec Sheet

MATERIAL	TENSILE STRENGTH	TENSILE MODULUS	ELONGATION AT BREAK	FEATURES AND BENEFITS	APPLICATIONS	TECHNICAL DATA
RIGID 10K	7980 psi	1090 ksi	2%	Glass-filled resin Highly resistant to heat and chemicals Simulates stiffness of glass and fiber-filled thermoplastics	Parts needing to withstand significant load without bending.	Datasheet
RIGID 4000	4786 psi	305 ksi	23%	Glass-filled resin Simulates stiffness of PEEK Smooth, polished finish	Load bearing applications, jigs and fixtures, and thin-walled parts.	Datasheet
TOUGH 2000	4206 psi	174 ksi	74%	ABS-like strength and stiffness Stiff and sturdy	Strong and sturdy rugged prototypes that are difficult to bend.	Datasheet
TOUGH 1500	3771 psi	136 ksi	69%	Simulates strength and stiffness of polypropylene Stiff and pliable Certified for permanent skin contact	Stiff and pliable resilient prototypes that bend and spring back easily.	Datasheet
DURABLE	1900 psi	34 ksi	75%	Simulates strength and stiffness of polyethylene Impact-resistant, and lubricious Soft and pliable	Soft and pliable parts that bend easily and spring back slowly.	Datasheet
FLEXIBLE 80A	539 psi	N/A	100%	Simulates the flexibility of rubber or TPU Balances softness with strength Withstands repeated cycles of bending and flexing	Harder flexible parts that return to shape slowly.	Datasheet
ELASTIC 50A	234 psi	N/A	100%	Similar to silicone Suitable for wearable medical devices and robotics	Softer flexible parts that return to shape quickly.	Datasheet