

Carbon DLS Spec Sheet

MATERIAL	TENSILE STRENGTH	TENSILE MODULUS	ELONGATION AT BREAK	FEATURES AND BENEFITS	APPLICATIONS	TECHNICAL DATA
UMA 90	4.4 ksi	200 ksi	30%	One-part rigid resin Available in multiple colors Great for low-cost, fast printing	Jigs, fixtures, proof of concept and general purpose prototypes.	Datasheet
CE 221	12 ksi	570 ksi	3%	Comparable to glass-filled nylon High-temperature resistant Biocompatible UV Aging and chemical resistant	Parts requiring long term thermal stability, strength, and stiffness.	Datasheet
EPU 40	2700 psi	1200 psi	400%	High-performance polyurethane elastomer Biocompatible High glass transition temperature Chemical compatibility	Applications requiring high elasticity and tear resistance such as gaskets, and seals.	Datasheet
EPU 41	2200 ksi	1160 psi	300%	Production-scale elastomer Biocompatible Cold temperature resistant Color fast	Elastomeric lattices requiring high resiliency.	Datasheet
RPU 70	6 ksi	245 ksi	30%	Comparable to ABS Flame rated Biocompatible Chemical compatibility	Parts requiring strength, toughness, and moderate heat resistance.	Datasheet
RPU 130	5 ksi	145 ksi	100%	Polyurethane comparable to unfilled thermoplastic High-temperature stability Environmental cycling stability Bio-based material	Applications requiring strength, toughness, and high heat resistance.	Datasheet
SIL 30	500 psi	440 psi	350%	Silicone urethane Biocompatible Tear resistant	Wearable devices and other applications requiring long term skin contact.	Datasheet

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FPU 50	4 ksi	100 ksi	200%	<ul style="list-style-type: none"> Comparable to polypropylene Impact, abrasion, and fatigue resistant Semi-rigid 	Parts needing to withstand repetitive stresses such as living hinges.	Datasheet
MPU 100	5 ksi	190 ksi	15%	<ul style="list-style-type: none"> Comparable to medical-grade ABS Biocompatible and sterilizable Abrasive and chemical resistant Master file available with the FDA 	End-use medical devices and other applications requiring sterilizable materials.	Datasheet
EPX 82	10 ksi	410 ksi	5%	<ul style="list-style-type: none"> Comparable to glass-filled thermoplastics Low off-gassing Chemical resistant Exceptional endurance 	Automotive and industrial products requiring heat deflection and functional toughness.	Datasheet
IND 405 CLEAR	6 ksi	218 ksi	120%	<ul style="list-style-type: none"> One-part resin comparable to unfilled propylene Frosted clear finish Tough and semi-rigid Stable optical and material properties over time 	Applications requiring functional toughness, stiffness, and temperature resistance.	Datasheet