

# RPU 60

RPU 60 is a tough, abrasion-resistant material that is a good choice for parts that require rigidity, strength, and durability.

<b>Tensile Properties</b> —ASTM D638-Type V, 10 mm/min	Metric	U.S.
Tensile Modulus	1.60 ± 0.10 GPa	230 ± 15 ksi
Ultimate Tensile Strength	48 ± 8 MPa	7.0 ± 1.0 ksi
Tensile Strength at Yield	42 ± 2 MPa	6.1 ± 0.2 ksi
Elongation at Yield	6 ± 1 %	6 ± 1 %
Elongation-at-Break	130 ± 10 %	130 ± 10 %

<b>Flexural Properties</b> —ASTM D790	Metric	U.S.
Flexural Strength	42 ± 2 MPa	6.0 ± 2.5 ksi
Flexural Modulus	1.45 ± 0.50 GPa	210 ± 8 ksi

<b>Impact Properties</b>	Metric	U.S.
Notched Izod (machined), ASTM D256	29 ± 1 J/m	0.54 ± 0.02 ft-lb/in.
Unnotched Izod, ASTM D4812	770 ± 40 J/m	14 ± 1 ft-lb/in.

<b>Thermal Properties</b>	Metric	U.S.
Heat Deflection Temperature @ 0.45 MPa/66 psi, ASTM D648	58 °C	136 °F
Heat Deflection Temperature @ 1.82 MPa/264 psi, ASTM D648	49 °C	120 °F

**NOTES**—Test specimens were prepared using Carbon M1 printer and a Type B cassette. Print parameters were generated using software v.0.42.0. Tensile data were generated using printed Type V samples (per ASTM D638). All other test specimens were printed following standard ASTM test geometries. All test specimens were printed, cleaned, and post-processed per instructions provided in the Carbon User Manual. Liquid property measurements were carried out using fully mixed resins. Results provided herein are representative of these processes and may vary if these established protocols are not followed.