



# RPU 60

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



## CarbonResin RPU 60

DOC #103211 REV C  
TECHNICAL DATA SHEET, LAST UPDATED 08/14/2017

<b>Tensile Properties</b> ASTM D638, Type V, 10 mm/min	Metric	U.S.
Tensile Modulus	1600 ± 100 MPa	230 ± 15 ksi
Ultimate Tensile Strength	48 ± 8 MPa	7.0 ± 1.2 ksi
Tensile Strength at Yield	42 ± 2 MPa	6.1 ± 0.3 ksi
Elongation at Yield	6 ± 1 %	
Elongation at Break	130 ± 10 %	

<b>Flexural Properties</b> ASTM D790	Metric	U.S.
Flexural Strength	42 ± 2 MPa	6.1 ± 0.3 ksi
Flexural Modulus	1450 ± 500 MPa	210 ± 73 ksi

<b>Impact Properties</b>	Metric	U.S.
Notched Izod (Machined), 23 °C, ASTM D256	29 ± 1 J/m	0.54 ± 0.02 ft-lb/in
Notched Izod (Machined), -30 °C, ASTM D256	20 ± 4 J/m	0.37 ± 0.07 ft-lb/in
Unnotched Izod, ASTM D4812	933 ± 85 J/m	17.5 ± 1.6 ft-lb/in
Notched Charpy, ISO 179-1/1eA	2.06 ± 0.11 kJ/m <sup>2</sup>	0.980 ± 0.052 ft-lb/in <sup>2</sup>

<b>Thermal Properties</b>	Metric	U.S.
Heat Deflection Temperature @ 0.455 MPa/66 psi, ASTM D648	58 °C	136 °F
Heat Deflection Temperature @ 1.82 MPa/264 psi, ASTM D648	49 °C	120 °F
Coefficient of Thermal Expansion (-40, 40 °C), ASTM E831	100 ppm/°C	56 ppm/°F

<b>General Properties</b>	Metric
Hardness, ASTM D2240	80, Shore D
Density, ASTM D792	1.076 g/cm <sup>3</sup>
Density (liquid resin)	1.02 g/cm <sup>3</sup>



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