

# EPU 40

EPU 40 is a high performance polyurethane elastomer that is a good choice for applications where high elasticity and tear resistance are needed.



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<b>Tensile Properties</b> ASTM D412, Die-C Shape, 500 mm/min	Metric	U.S.
Ultimate Tensile Strength	7.7 MPa	1100 psi
Elongation at Break	> 250 %	
Stress at 50 % Elongation	1.9 MPa	280 psi
Stress at 100 % Elongation	3.0 MPa	440 psi
Stress at 200 % Elongation	5.5 MPa	800 psi

<b>Mechanical Properties</b>	Metric	U.S.
Tear Strength, ASTM D624, Die-C (die cut)	23 kN/m	130 lb <sub>r</sub> /in
Compression Set, 23 °C, 72 hrs, ASTM D395-B	23 %	
Bayshore Rebound Resilience, ASTM D2632	29 %	

<b>Thermal Properties</b>	Metric	U.S.
T <sub>g</sub> (DMA, tan(d)), ASTM D4065	8 °C	46 °F

<b>Dielectric Properties</b> ASTM D150, 1 MHz	Metric	
Dissipation Factor	0.031	
Dielectric Constant	3.9	

<b>General Properties</b>	Metric	
Hardness, Shore A, ASTM D2240	68 (instant), 64 (5 sec)	
Density, ASTM D792	1.025 g/cm <sup>3</sup>	
Density (liquid resin)	1.00 g/cm <sup>3</sup>	
Relative Abrasion Volume Loss, ISO 4649 A	170 mm <sup>3</sup>	

**NOTES**—Results in this data sheet represent typical values from specific sample generation and testing processes and may vary if the established protocols are not followed. Contact Carbon for the specific process used to generate the test samples to determine each of these values. The U.S. values are converted from Metric measurements and are for reference only.

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**We create.  
We produce.**

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