



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.



CarbonResin EPU 40

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TECHNICAL DATA SHEET, LAST UPDATED 05/02/2017

Tensile Properties 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
Tensile Set, 100 % Elongation	2.1 %	

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

Thermal Properties	Metric	U.S.
Coefficient of Thermal Expansion, ASTM D696	190 ppm/°C	106 ppm/°F
T _g (DMA, tan(d)), ASTM D4065	8 °C	46 °F

Dielectric Properties ASTM D150, 1 MHz	Metric
Dissipation Factor	0.031
Dielectric Constant	3.9

General Properties	Metric
Hardness, Shore A, ASTM D2240	68
Density, ASTM D792	1.025 g/cm ³
Density (liquid resin)	1.00 g/cm ³



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