

SIL 30

SIL 30 is a soft, biocompatible, and tear-resistant silicone urethane elastomer that is ideal for comfortable skin-contact applications.

Tensile Properties ASTM D412, Die-C Shape, 500 mm/min	Metric	U.S.
Ultimate Tensile Strength	3.2 MPa	460 psi
Elongation at Break	> 330 %	
Stress at 50 % Elongation	0.42 MPa	61 psi
Stress at 100 % Elongation	0.69 MPa	100 psi
Stress at 200 % Elongation	1.45 MPa	210 psi
Mechanical Properties	Metric	U.S.
Tear Strength, ASTM D624, Die-C (die cut)	9.6 kN/m	55 lb _f /in
Compression Set, 23 °C, 72 hrs, ASTM D395-B	11 %	
Bayshore Rebound Resilience, ASTM D2632	20 %	
Thermal Properties	Metric	U.S.
T _g (DMA, tan(d)), ASTM D4065	8 °C	46 °F
Dielectric Properties ASTM D150, 1 MHz	Metric	
Dissipation Factor	0.15	
Dielectric Constant	7.6	
General Properties	Metric	
Hardness, Shore A, ASTM D2240	35 (instant), 31 (5 sec)	
Density, ASTM D792	1.07 g/cm ³	
Density (liquid resin)	1.05 g/cm ³	

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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