



SIL 30

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



CarbonResin SIL 30

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TECHNICAL DATA SHEET, LAST UPDATED 05/02/18

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

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



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