

# SIL 30

**Technology:** Carbon DLS

**COLOR OPTIONS:**  Gray

**APPLICATIONS:**

Medical devices, wearables—e.g. wrist bands/ head phones.

**DESCRIPTION:**

SIL 30 is a silicone urethane elastomer resin and passes the requirements for biocompatibility tests. SIL 30 is suitable for prolonged skin contact (more than 30 days) and short-term mucosal-membrane contact (up to 24 hours). It is a specialty material available for specific production applications. Tests performed: ISO 10993-5, Biological evaluation of medical devices—Part 5: Tests for in vitro cytotoxicity, and ISO 10993-10, Biological evaluation of medical devices—Part 10: Tests for irritation and skin sensitization (GPMT).

**FEATURES:** Soft touch, biocompatible, tear resistant.

**TECHNICAL DATA**

PROPERTY	ASTM	METRIC UNITS
<b>Tensile Properties, Die-C, 500 mm/min</b>		
Ultimate Tensile Strength	D412	3.4 MPa
Elongation at Break	D412	330 %
Stress at 50 % Elongation	D412	0.42 MPa
Stress at 100 % Elongation	D412	0.69 MPa
Stress at 200 % Elongation	D412	1.45 MPa
<b>Mechanical Properties</b>		
Tear Strength	D624-C	9.6 kN/m
<b>General Properties</b>		
Hardness	D2240	35, Shore A