

SIL 30

TECHNOLOGY: Carbon DLS

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

DESCRIPTION: SIL 30 resin passed the requirements for biocompatibility tests so that they are suitable for prolonged skin contact (more than 30 days) and short-term mucosal-membrane contact (up to 24 hours). 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

Color Options: Gray

TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS
Tensile Properties, Die-C, 500 mm/min		
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
Mechanical Properties		
Tear Strength	D624-C	9.6 kN/m
General Properties		
Hardness	D2240	35, Shore A

