

NEWSPACE MARKET · COMPANY PROFILE



Sheldahl (Multek Flexible Circuits)

United States · founded 1959 · sheldahl.com

6

PRODUCTS

newspacemarket.com/companies/sheldahl-multek-flexible-circuits/

as of 20 August 2026

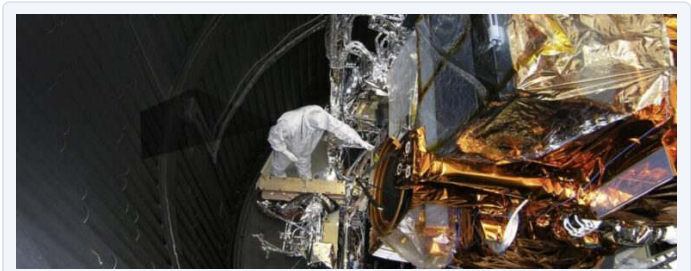


Sheldahl (Multek Flexible Circuits)

For more than 65 years, Sheldahl has designed and manufactured custom flexible printed circuits and advanced materials that connect and power new possibilities across aerospace, automotive, medical, and industrial markets. Today operating as Multek Flexible Circuits, a Flex company, Sheldahl employs 800+ people across more than 350,000 square feet of manufacturing space and produces over 25,000 miles of product annually. Sheldahl's space heritage dates back to NASA's first satellite programs and every era of crewed spaceflight since. Its thin-film thermal control materials have flown on missions worldwide, and its engineers designed and developed the sunshield materials protecting the critical electronics aboard the James Webb Space Telescope. The company's aerospace thermal control materials are recognized industry-wide for reliability in the extreme thermal and vacuum environments of space. Beyond aerospace, Sheldahl's flexible circuits, printed electronics, unidirectional tapes, and optical materials serve automotive electrification, healthcare wearables, industrial abrasives, human-machine interfaces, and smart packaging. Core capabilities span roll-to-roll automated processing, printed polymer thin film, screen printing, vacuum deposition, adhesive formulation and laminating, and precision circuit finishing and assembly.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

Product catalogue



SHELDAHL (MULTEK FLEXIBLE CIRCUITS)

Aerospace Thermal Control Materials

Flight-proven thin-film thermal control materials protecting spacecraft since 1958, including JWST sunshield materials.

Heritage

Space thermal control material heritage since 1958

Notable program

James Webb Space Telescope onboard thermal protection

Material types

Multi-layer insulation, second-surface mirrors, conductive/non-conductive tapes, thermal c

Manufacturing processes

Vacuum deposition, adhesive formulation and laminating, slitting and sheeting

Application

Spacecraft and satellite thermal management in vacuum/radiation environments

price on request



SHELDAHL (MULTEK FLEXIBLE CIRCUITS)

Electronic Materials

Advanced electronic material solutions including flexible flat cable and fuel cell materials for compact, reliable designs.

Product families

Flexible flat cable (FFC) materials, fuel cell materials

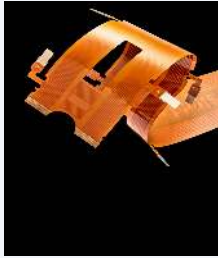
Manufacturing base

Roll-to-roll processing, surface finishing, precision lamination

Target markets

Automotive electrification, battery management, consumer electronics, industrial controls

price on request



SHELDAHL (MULTEK FLEXIBLE CIRCUITS)
Flexible Printed Circuits

Interconnect solutions that bend, fold, and conform to compact electronic and aerospace designs.

Circuit types	Single-sided, double-sided, multi-layer
Fabrication process	Roll-to-roll automated processing
Via technology	Screen-thru-vias
Conductor options	Copper foil, printed silver flexible hybrid
Printed components	Printed resistors, printed piezo resistors
Finishing	Copper over-plate, shielding film application, electrical testing, circuit blanking, stiff
Target industries	Aerospace, defense, automotive, medical, industrial

price on request

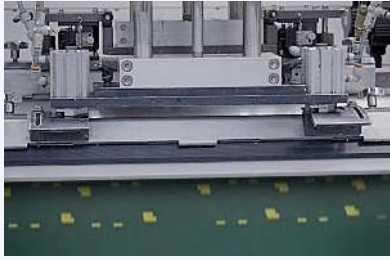


SHELDAHL (MULTEK FLEXIBLE CIRCUITS)
Optical Materials

ITO and PEDOT transparent conductive coatings for touch sensors, flexible displays, wearables, and solar cells.

Coating chemistries	ITO (indium tin oxide), PEDOT
Key properties	High flexibility, low electrical resistance, optical clarity
Applications	Capacitive touch sensors, flexible displays, wearable devices, solar cells

price on request

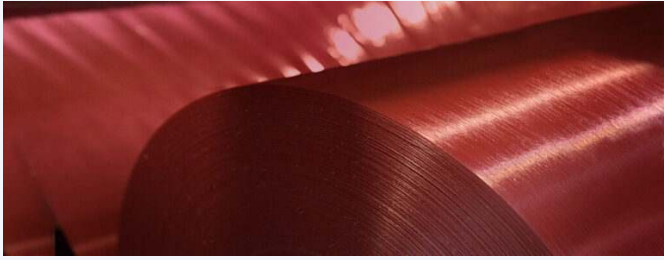


SHELDAHL (MULTEK FLEXIBLE CIRCUITS)
Printed Electronics

Custom printed circuit solutions from simple switches to complex multi-pass prints with integrated printed components.

Inks & pastes	Silver, Carbon/graphite, Ag/AgCl, PTC, PEDOT, dielectrics, graphic inks, zinc, nano silver
Substrates	PET, PI (polyimide), TPU/stretchable materials, coated fabrics
Circuit fabrication	Roll-to-roll manufacturing, single/double-sided, multi-layer printing, screen-thru-vias, c
Finishing & assembly	Shielding film application, electrical testing, circuit blanking, stiffeners/foams

price on request



SHELDAHL (MULTEK FLEXIBLE CIRCUITS)
Unidirectional Tapes

Sheldahl-branded unidirectional tapes and proprietary adhesive formulations for high-strength abrasive belts.

Product forms	Unidirectional reinforcement tapes, coated tapes, adhesives/curatives
Core processes	Adhesive formulation, coating & laminating, perforating & embossing, slitting & sheeting
Primary application	Industrial abrasive belt reinforcement and bonding
Brand	Sheldahl-branded proprietary adhesive formulations

price on request

Contact Sheldahl (Multek Flexible Circuits)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/sheldahl-multek-flexible-circuits/>

<https://www.sheldahl.com>

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