




Multilumen Extrusion



Lubrizol's precision extrusion solutions optimize the clinical outcome of thermoplastics and silicone multilumen tubing for the medical device industry.

Applications include structural heart, electrophysiology, vascular intervention, vascular access, endosurgery, CRM and neurostimulation, coronary, peripheral, neurovascular, dialysis, venous, urology, ob/gyn, endoscopy and many other medical device applications.

Description

Multilumen tubing consists of two or more working channels (lumens) running the length of the tubing.

We manufacture custom multilumen tubing in virtually any configuration. The number, size and configuration of the lumens is limited only by the outer diameter, wall thickness, web thickness and material.

Function

Provide channels to optimize management of fluid, mechanical, electrical and/or energy delivery for minimally invasive diagnostic and therapeutic devices as well as transcatheter and endovascular catheters and delivery systems.

Lumens serve a variety of purposes in numerous applications, allowing for passage of fluids or drugs, as guidewires, inflation /deflation of a balloon, mechanical devices (instruments, stents, baskets, coils, etc.), electrical /electronic sensors, wires and conductors and /or energy delivery (thermal, RF, cryo and UV).



Tooling, Materials, Process and Quality Control

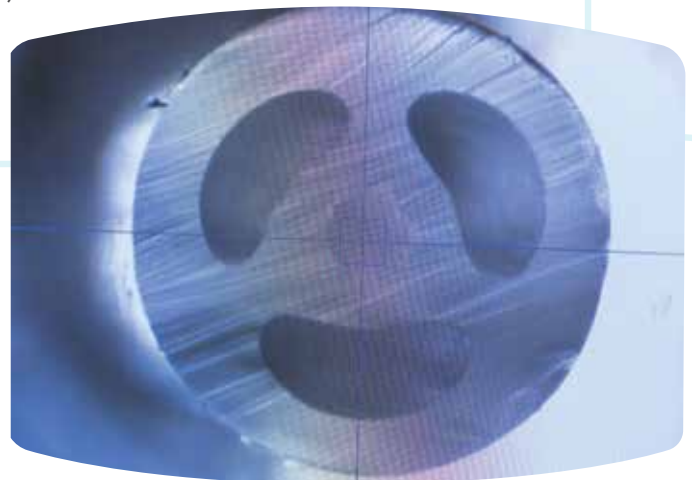
We design and build the multilumen tooling in-house, ensuring quality control and rapid response times. Lubrizol employs advanced process technology and comprehensive quality control methods to ensure lumen consistency and patency.

Competency. Complex Multilumen Configurations

Our experienced extrusion professionals understand how to balance design and manufacturability, optimizing customer requirements for performance and cost.

Our expertise includes:

- Configurations ranging from 2-20 lumens
- Lumen sizes ranging up to recheck the nos. 0.5" (12.5 mm) depending on raw material
- Numerous lumen shapes, including round, elliptical, star-shaped, crescent and others
- Bump tubing and transition tubing (also called tapered)
- Coextruded tubing (striped or multilayered)
- Wall and web thickness as thin as 0.001" (0.025 mm)
- Coil and braid reinforced tubing
- Rapid extrusion services



About Lubrizol Life Science - Lubrizol partners with customers to speed their innovative medical devices and differentiated pharmaceutical products to market. Our dedicated team provides best-in-class polymers and excipients, along with state-of-the-art product design, development, and manufacturing services, with the ultimate goal of creating solutions that improve patient outcomes. For more information visit www.lubrizolmeddevicecm.com.