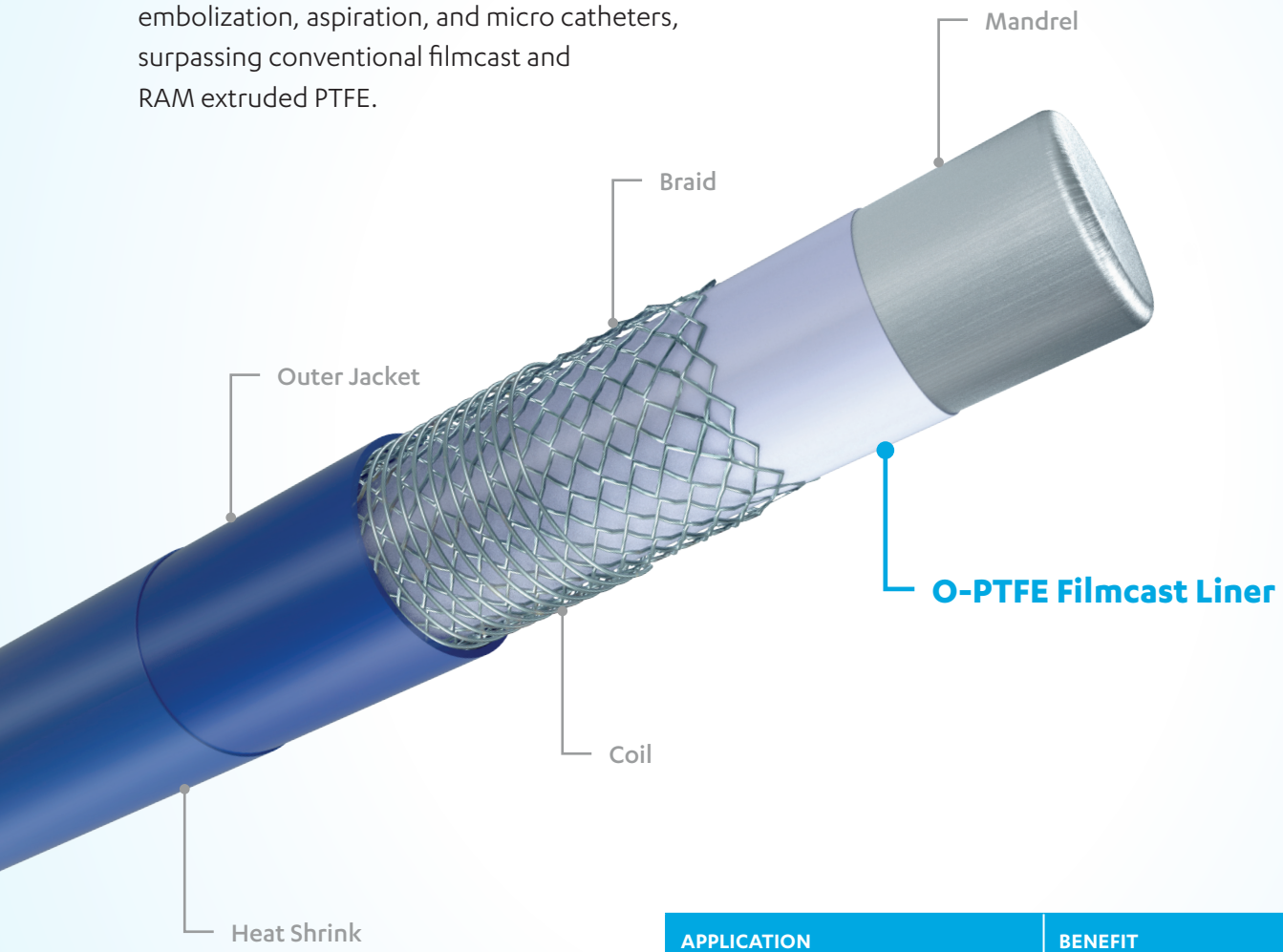
Optimized PTFE Filmcast Liner Technology (O-PTFE)

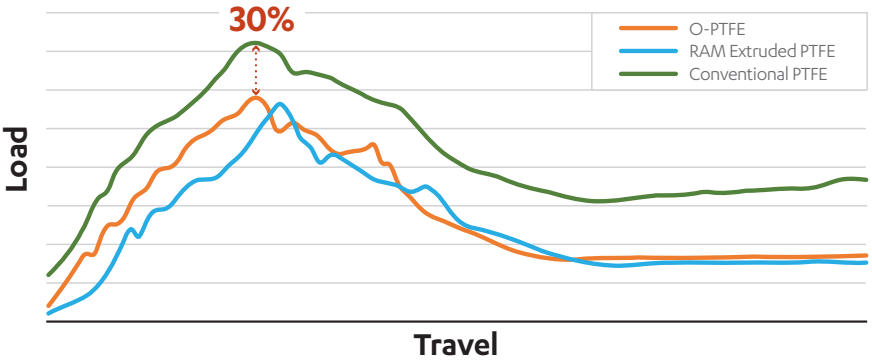
Flexibility Meets Durability.

Integer's innovative **O-PTFE Liner** technology delivers high-performance solutions for neurovascular embolization, aspiration, and micro catheters, surpassing conventional filmcast and RAM extruded PTFE.



	APPLICATION	BENEFIT
Durability & Abrasion Resistance	Minimizes delivery forces while maintaining flexibility	Lower delivery forces and particle generation spec. relevant for stent retriever, flow diverter delivery
High-Pressure Resistance	Accommodates the delivery of embolization agents	Optimized for aspiration and embolization catheters
Ultra-Thin Walls	Maximizes flow rates and facilitates device interface	Minimized wall thickness for greater ID and distal flexibility

DURABILITY AND LUBRICITY

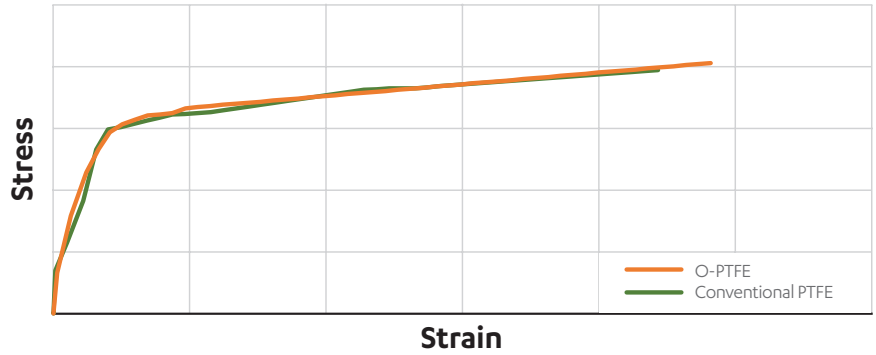


Bench Testing in anatomical model measuring the retraction force of a stent retriever being pulled through the ID of a PTFE lined catheter.

RESULTS

- **Durability and Lubricity comparable to extruded PTFE**
- **Up to 30% improvement in durability and lubricity vs conventional filmcast.**

FLEXIBILITY

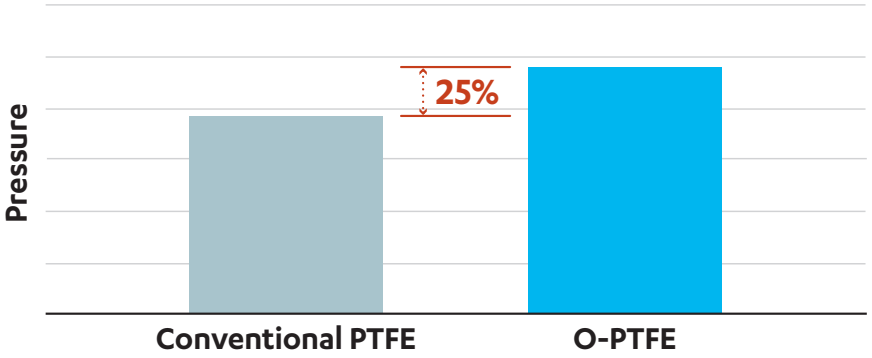


Tensile testing performed to generate stress/strain curves for legacy and O-PTFE to generate tensile modulus to determine impact on material stiffness.

RESULTS

No trade-off in Flexibility vs. Conventional PTFE

CONVENTIONAL PTFE VS O-PTFE BURST PRESSURE



Liner only was tested to burst using water to pressurize the ID.

RESULTS

- **Up to 25% improvement over legacy PTFE**
- **Specifically suitable for aspiration and embolization catheters.**

SPECIFICATIONS

Mandrel	Inside Diameter (ID)	ID Tolerance	Nominal Wall Thickness	Wall Tolerance (average)	Cut Length
Annealed Stainless Steel/ Silver Plated Copper	0.008" – 0.100"	± 0.0002" - ± 0.0005"	0.0004" – 0.003"	± 0.0001" - ± 0.0005"	85" Max./Spooled

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