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DATA SHEET

Hydralese®MT

Resorbable Polymer Platform

For MedTech Innovation



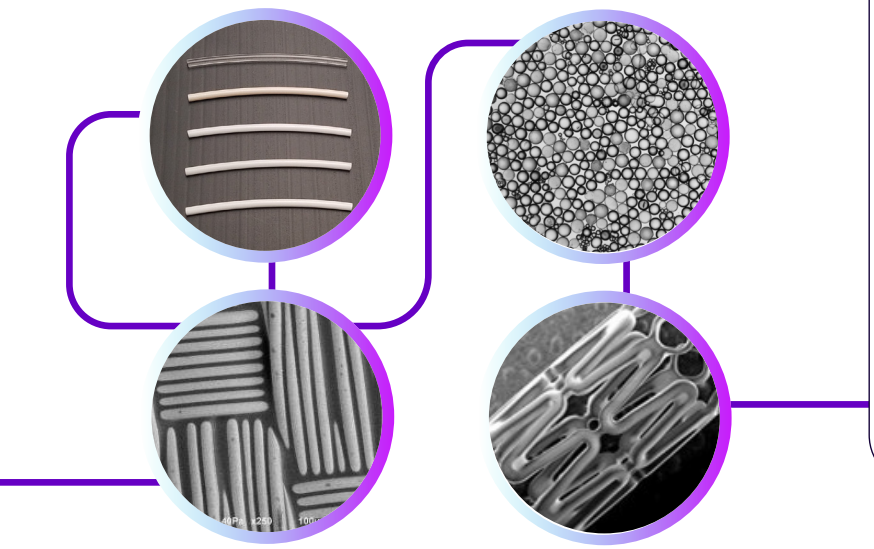
Secant Group's Hydralese®**MT** polymer platform can be leveraged to enable innovative custom-developed solutions for complex resorbable device challenges. Our library of polymers provides the versatility needed to bring the right solution to market.

Benefits of the Hydralese Polymer Library:

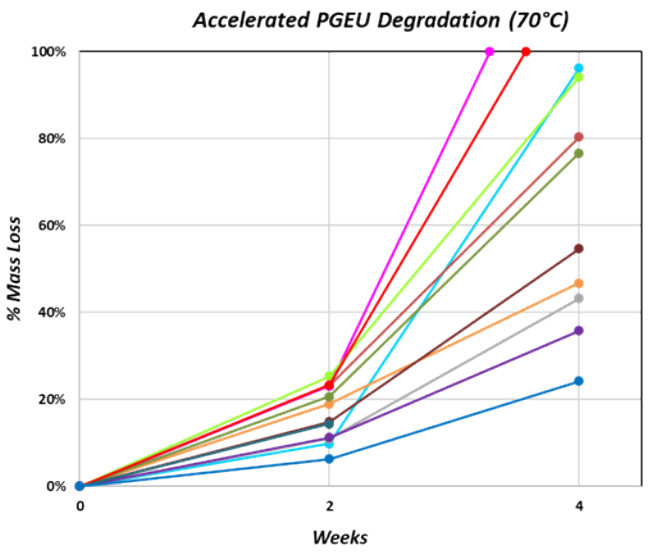
- Bioresorbable, surface-eroding poly(glycerol ester) urethanes (PGEUs)
- Elastomeric polymer platform with tunable biomechanics capable of matching native tissue compliance
- Can provide the optimal physical and mechanical properties for implant success
- Customizable degradation profiles
- Wide range of form factors manufacturable at ambient conditions
- Can be formulated to deliver active pharmaceutical ingredients
- Patent-protected platform

Form Factors for MedTech:

- Coatings
- Foams
- Molded solid implants
- Microspheres
- Other customizable constructions



Tunable Degradation with PGEU



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PGSU — a Polymer of the Hydralese® Library

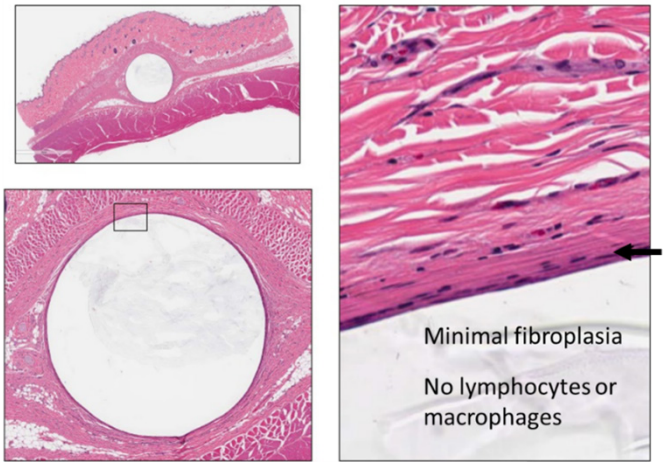
- Biocompatible and safe for contact with human tissue and fluids, per ISO 10933 and USP Class VI testing results
- Cell-friendly degradation byproducts with minimal pH change

Attributes	Hydralese Properties*
Tensile Modulus	2 - 12 MPa
Flexural Modulus	3 - 4 MPa
Compressive Modulus	4 - 5 MPa
Hardness (Shore A)	50 - 70
Degradation	12 - 36 months
Degradation Mechanism	Hydrolysis
Water Absorption (24 hours)	<3% (w/w)
Manufacturing Process	Molding, extruding, casting, coating, foaming
Storage	Room temperature, room humidity

** Properties modifiable based on form factor design*

In vivo Biocompatibility with PGSU Formulations

- Subcutaneous implantation rat model (3 months)





Ready to Spark Your Next Medical Device Innovation?

With decades of expertise in materials science, our team can help you solve your MedTech challenges with custom polymer solutions.

- Decades of polymer expertise
- Proprietary patent-protected, biodegradable polymer platforms
- In-house analytical testing and method validation
- ISO-certified Class 7 & 8 cleanrooms

Learn more at
www.solesis.com/medtech

Hydralese®MT — Engineered for Performance and Possibility

Hydralese®**MT** is designed to meet the rigorous demands of advanced medical device applications. With a foundation in tunable polymer chemistry, Hydralese is ready to scale with your innovation.

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