



PRESIDIUM

Disruptive Engineered Materials

Introduction to Presidium & RevoTherm™

January 2020

Proprietary & Confidential Information

CONFIDENTIAL

An innovative technology company that invents, develops and manufactures disruptive engineered materials.

Mission: To revolutionize not only what products can be made of, but how products are designed and manufactured.

50 years ago plastics changed how products were made, replacing glass, paper and metal

Today Revo**Therm**TM has set out to disrupt the composites industry by doing the same to fiberglass, plastic & metal

What is RevoTherm™?

Revolutionary Material

- A patented, “polyurethane-based” thermoset resin system with material properties capable of replacing traditional composite materials in either a lightweight “neat” or reinforced system.

Clean, Optimal Process

- Low viscosity material
- Low pressure process
- Minimal skilled labor
- No-styrene VOC’s
- Low cost tooling

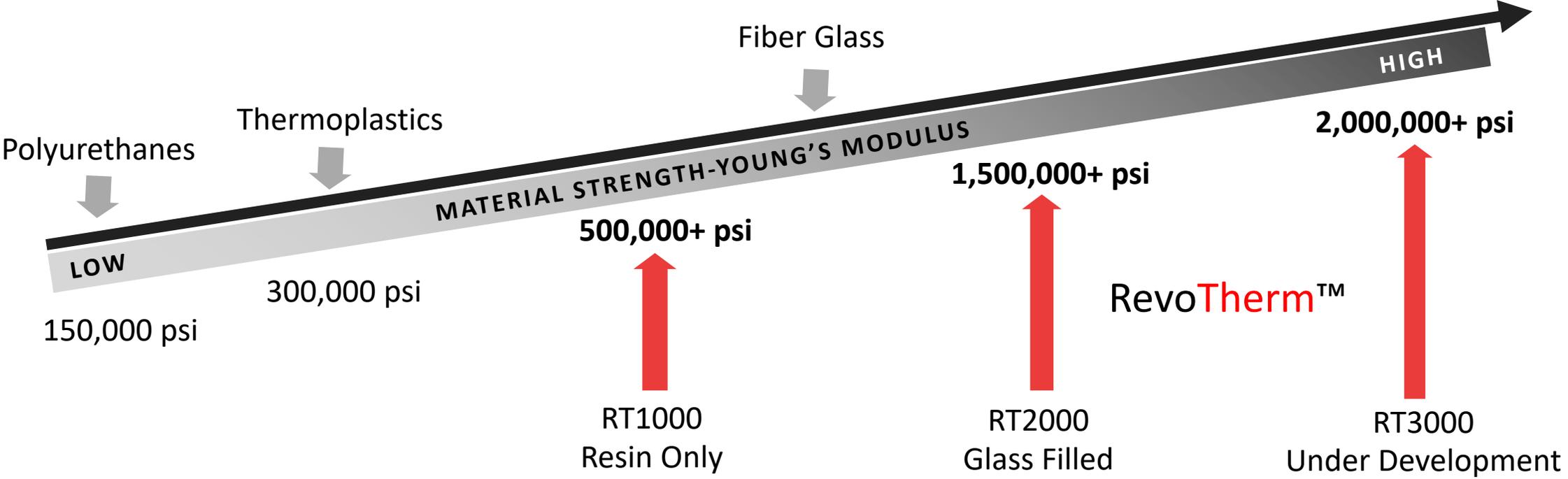
Part Design Freedom

- Thick-to-thin areas
- A and B side design capability - ribs, bosses and textures
- Resin-rich areas are a good thing!



“Swiss Army Knife of Value Propositions”

RevoTherm™ - Superior Performance



Deliver strength plus other physicals capable of replacing resins and composite materials used in many part applications today.

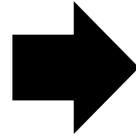
RevoTherm™ - Think Coke®

Coke Syrup



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Carbonated Water



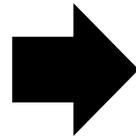
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RevoTherm™ 2-Part Resin System



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Our "secret sauce"

RevoTherm™ Meter mix equipment

Truck Headlight Bucket

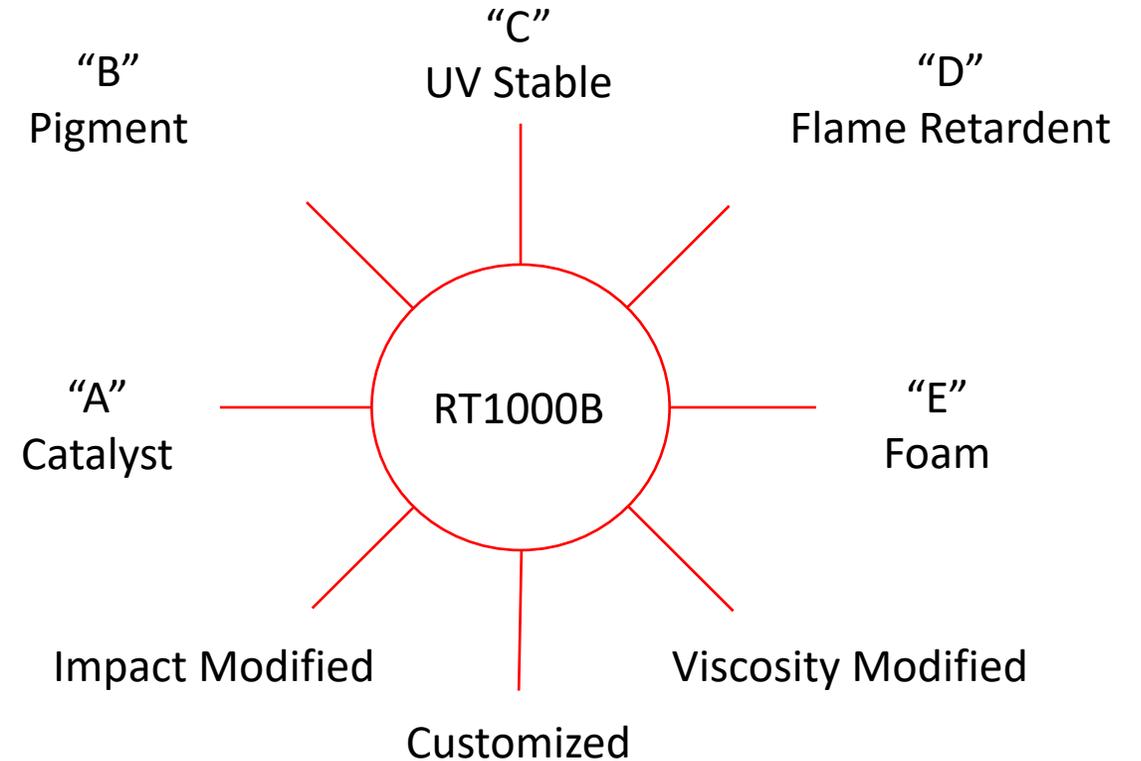
RevoTherm™ - Multiple Product Variations



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Additives, Agents, Catalysts



Flexible chemistry works with glass/carbon fiber reinforcements and additives, yielding multiple discrete RevoTherm™ products with wide performance range.

RevoTherm™ - Multiple Sales Channels



Works with Existing Processing Equipment for Manufacturing Composite Parts

Reaction Injection Molding (RIM)

Resin Transfer Molding (RTM)

Vacuum Assisted RTM

Pultrusion

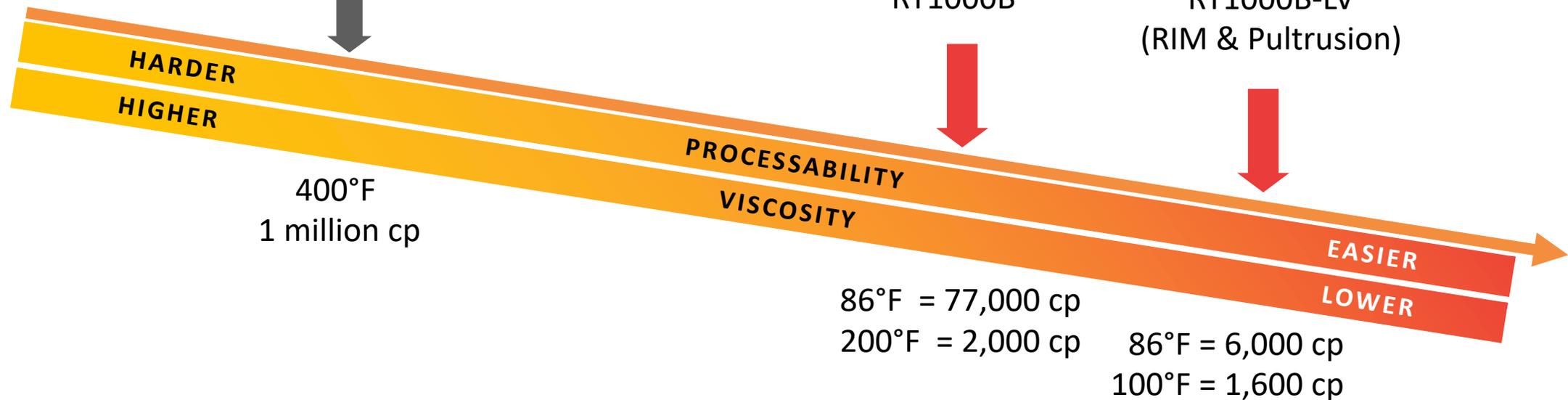
Foams

RevoTherm™
200 psi

Thermoplastics
2,000 psi

RT1000B

RT1000B-LV
(RIM & Pultrusion)



RevoTherm™ - Target Markets

- Automotive aftermarket
- Agricultural/ Construction
- EV
- Heavy Truck
- Recreational
- RV/ Specialty Vehicle
- Marine
- Infrastructure
- Aerospace
- Wind



SEMA 2019 – RevoTherm™ Composite Jeep Bumper

Presidium Operations

- Presidium was established in London, ON, Canada in 2011.
 - Home for our fully equipped research and product development facility

- Presidium's R&D Innovation Center

- State-of-the-art research lab
- Analytical testing equipment
- Physical property testing equipment
- Covestro Baulé meter/ mix machines
- Composite tool fabrication
- Small scale Revo**Therm**[™] part production



- Plans to establish US headquarters and commercial center in Detroit, MI Area Q4 2020

For Further Information
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Thank You
www.PresidiumUSA.com