



Press Release

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Covestro LLC
Communications
1 Covestro Circle
Pittsburgh, PA 15205

Contact
Bridgette Bash
Telephone
412-413-5947
Bridget.Bash@covestro.
com

Covestro polycarbonate combines form, functionality for Dermadry device that treats excessive sweating

- **Hyperhidrosis, characterized by excessive sweating, affects approximately 1 in 20 people worldwide**
- **Dermadry selects Makrolon® 2458 polycarbonate from Covestro for key components of the latest device for treating hyperhidrosis**
- **Makrolon® 2458 material offers multiple benefits, including impact resistance, biocompatibility, quality and aesthetics**

ANAHEIM, Calif., Feb. 7, 2023 -- Hyperhidrosis, a medical condition characterized by excessive sweating, affects the quality of life of approximately 1 in 20 people worldwide. [Dermadry Laboratories Inc.](#), a leading manufacturer of iontophoresis machines for at-home treatment of excessive sweating, selected polycarbonate from Covestro to form an important component of its latest Dermadry Tap Water Iontophoresis (TWI) device. Covestro aims to enhance the health and overall well-being of people by offering a broad portfolio of medical grade plastics that help OEMs, like Dermadry, bring their innovative healthcare applications to market.

Dermadry offers three tailored TWI solutions to treat the areas most commonly affected by hyperhidrosis: the hands, feet, and underarms. Through extensive research, Dermadry found existing treatment devices were complicated to use, took up a lot of space, and looked too technical. With its latest iteration, Dermadry set out to design a user-friendly, ergonomic and aesthetically appealing device. The all-in-one Dermadry Total machine addresses these while halting sweat production by using the passage of mild electrical current through tap water to disrupt the signal between the nerves and sweat glands. The device's treatment trays that utilize Covestro polycarbonate are designed to make iontophoresis treatment easier and more comfortable for the user, and can also be interlocked, forming a convenient, compact storage case for all device pieces.

Dermadry evaluated several different materials for the treatment trays, including acrylonitrile butadiene styrene and polypropylene, before choosing Makrolon® 2458 polycarbonate from Covestro—a leading producer of advanced polymers and high-performance plastics in the United States and around the world.

Dermadry found that this medical polycarbonate grade offers the required physical properties, including excellent impact resistance, clarity, quality and biocompatibility—complemented by the strong aesthetics required for this application—a glossy finish and ergonomic design.



“We sought a biocompatible material for intact skin, beyond the standard properties of polycarbonate resins. Thanks to Makrolon®, Dermadry was able to design a product that evokes wellness and offers a soothing experience,” said Mathieu Mireault, Marketing Director, Dermadry. “Covestro’s excellent reputation, and ISO10993 testing, sealed the decision.”

In fact, healthcare device and equipment manufacturers have relied on high-quality materials from Covestro for more than 50 years. Covestro offers a broad portfolio of biocompatible, medical-grade products proven across a wide range of applications, from IV access components and surgical instruments to drug delivery solutions.

“It’s incredibly rewarding to know Covestro materials are making a positive difference in people’s lives,” said Anthony Leo, Business Development Manager, Covestro LLC. “We’re honored to have earned the confidence and trust of Dermadry, and in doing so, playing a role in filling a real need in the market.”

To learn more about how your company can use Covestro’s material expertise to enhance your medical device manufacturing, visit our [Solution Center](#).

About Covestro:

Covestro is one of the world’s leading manufacturers of high-quality polymer materials and their components. With its innovative products, processes and methods, the company helps enhance sustainability and the quality of life in many areas. Covestro supplies customers around the world in key industries such as mobility, building and living, as well as the electrical and electronics sector. In addition, polymers from Covestro are also used in sectors such as sports and leisure, cosmetics and health, as well as in the chemical industry itself.

The company is committed to becoming fully circular and is striving to become climate neutral by 2035 (scope 1 and 2). Covestro generated sales of EUR 15.9 billion in fiscal 2021. At the end of 2021, the company had 50 production sites worldwide and employed approximately 17,900 people (calculated as full-time equivalents).

Find more information at www.covestro.us.

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