NEXAR™ Polymers

Moisture Activated Cooling Technology for Performance Fabrics and Textiles

Perspiration is the body's way of protecting itself from overheating. Most commercially available wicking technologies seek to remove perspiration as quickly as possible. NEXAR™ polymer coatings actually utilize the body's natural sweating process to fuel an active cooling process. As moisture is absorbed from the skin surface, the NEXAR polymer swells and binds with the moisture, which, when released to the environment, provides a cooling effect that exceeds other technologies. Unlike other technologies available in the marketplace, NEXAR polymer coatings do not require complicated fiber or fabric construction and do not rely on a thermally activated process which can be quickly overwhelmed.

NEXAR polymers can be used as a coating, laminate, or additive. Its unique properties make it suitable for the performance fabric markets including protective clothing, active outerwear, bedding, military and intimate apparel. As long as the body is active and generating moisture or moisture vapor, the NEXAR coatings will generate an active cooling effect. Kraton continues to develop new solutions to meet the growing demand for applications our customers need to remain innovative and competitive.

Features & Benefits

- Moisture activated cooling technology
- Sustainable cooling effect
- Easily applied to any fabric
- Durable to wear and washing
- Tailored to meet your needs (color and design)

For more information, call 1-800-4-KRATON
or visit our website at www.nexarpolymers.com

Kraton
Giving Innovators Their Edge

NEXAR™ Polymers

Moisture Activated Cooling Technology

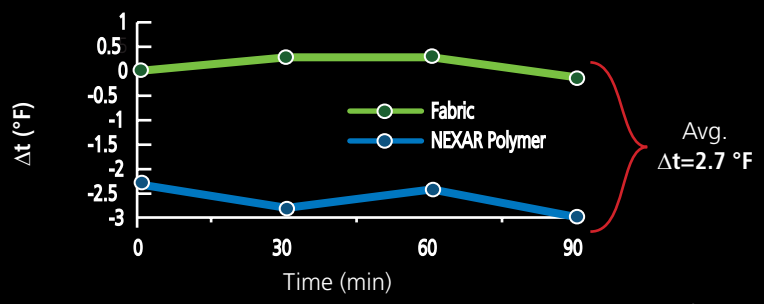
Processes To Apply NEXAR Polymers

- Gravure printing
- Screen printing
- Knife-over-roll coating
- Thermal and/or adhesive lamination
- Slot dye coating
- Transfer coating
- Spray Coating

Fabrics Coated with NEXAR Polymers

- FR treated modacrylic blend (no effect on FR performance)
- 100% PE wicking
- PE/spandex blends
- Nylon/cotton blends
- Nylon/spandex blends
- 100% Cotton
- Sateen
- NOMEX™
- Wool blends
- PE/cotton blends

Effect remains consistent as long as moisture or moisture vapor is present

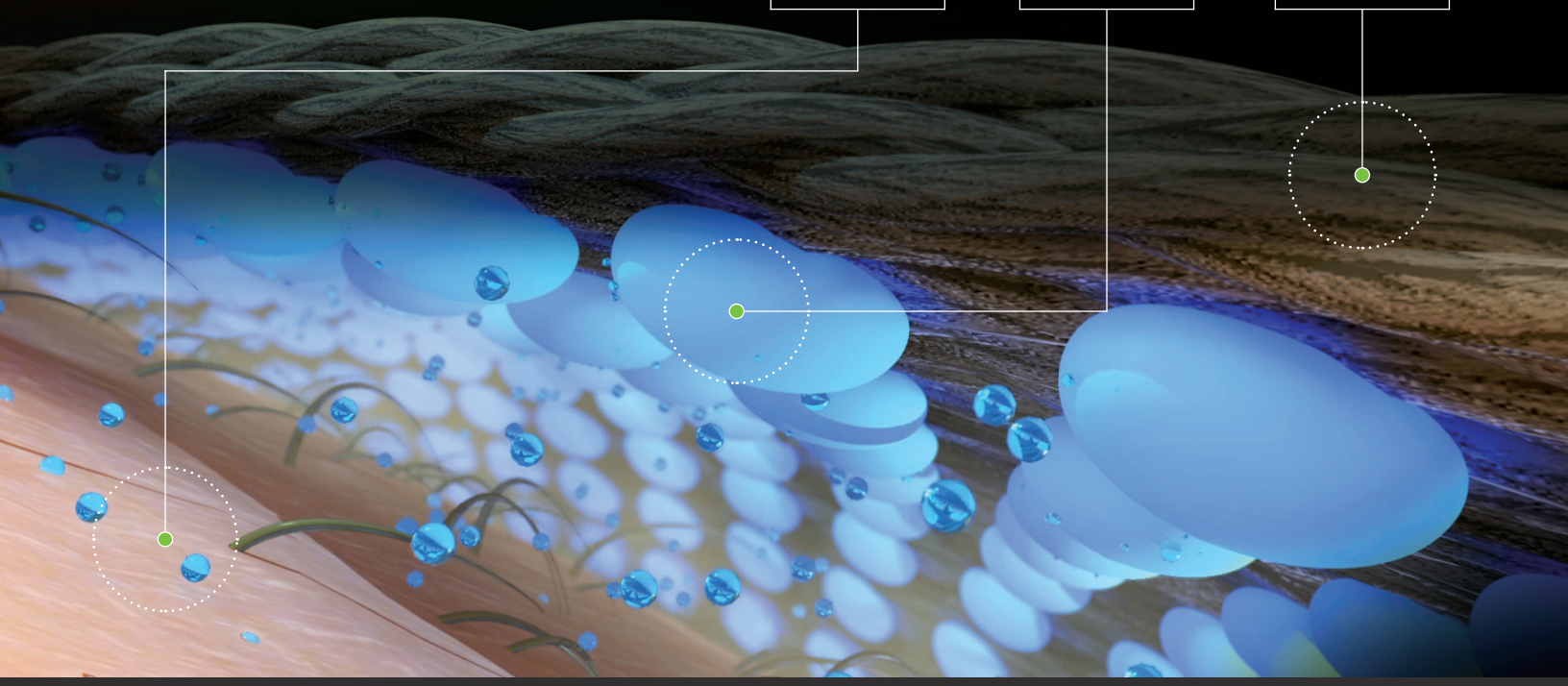


*NEXAR polymer coated substrate exposed to continuous moisture vapor under ambient conditions for 90 min.

1 Moisture is generated

2 NEXAR Polymer swells, cooling begins

3 Moisture released to the environment



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