

What does it mean to truly care?

Explore innovative prototypes at K 2019

Humanity needs care to thrive. There will always be a need for goods that make our lives healthier and more comfortable; like footwear, pillows, mattresses and hygiene products.

At K 2019, you can explore how we're working with a wide range of partners to develop sustainable and energy-efficient solutions.

We'll be showcasing over 140 prototypes at our stand (Hall 8A, K48). Below you'll find a list of those connected to our **CARE** domain.

While you can get a general overview of our prototypes on this page, K 2019 will provide a perfect platform to explore them. Here you can meet our experts and ask challenging questions, exchange ideas and visions and forge new relationships. We'll be there to listen, learn, discuss and be inspired. What challenges will you explore with us at K 2019?

Care

Prototype

Description

All Dow Shoe

If you're looking for performance, comfort and durability in your footwear, we have the materials technology you need. Create solutions that look stylish, feel great and perform from heel to toe.

Differentiated products for nonwovens and fibers

When it comes to personal hygiene products, everyone wants the utmost in softness, breathability, light weight, discretion and protection. Which all adds up to comfort. Dow's resins can offer cloth-like aesthetics, cloud-like softness and much more to virtually any nonwoven or fiber application. We invite you to come and feel the difference.

3D-printable liquid silicone rubber (LSR)

IMAGIN3D™ printing technology is a portfolio of innovative products, created to give designers and manufacturers greater design freedom. They help reduce product development cycles and offer distinct benefits. SILASTIC™ 3D-printable LSRs are high-performing, long-lasting materials. They perform reliably in a variety of applications, enabling products that are safe, adaptable and more sustainable.

Low temperature cure liquid silicone rubber (LSR)

SILASTIC™ LTC 9400 Series LSRs are low-temperature curing elastomers. They enable increased design freedom and process efficiency for automotive components and consumer goods.

Perfume caps made with SURLYN™ ionomer

A range of perfume caps presenting a variety of decoration techniques with optimized transparency, chemical resistance. Perfume caps made with SURLYN™ can be recycled into cosmetics applications, but at K 2019 we also show alternative opportunities for recycled material.

La Victorie (perfume cap)

A thick cap made with SURLYN™ with effect of gold flakes floating inside, while keeping the desired transparency. The result is an innovative and sophisticated packaging concept which breaks the convention of the straight-line caps commonly produced in Brazil.

Care

Prototype	Description
Le Tempo (perfume cap)	This innovative decoration was produced by combining the metallization process with SURLYN™ transparency, creating an incredible mirror effect.
Natural effects (perfume cap)	Besides the glass-like transparency of SURLYN™, we're aiming to showcase what else this material can add to perfume design in terms of colors and decoration effects – particularly when applied through unique molds. One important trend is the natural effect. SURLYN™ can create an effect closer to a stone than a plastic, making products appear more luxurious and natural.
PUMPART – tubairless cosmetic tube	PUMPART System's Tubairless® technology combines the simplicity of a tube with the performance of airless packaging. The technology allows for optimized (cream) evacuation rates of 95%.
Proven solid silicone technology for reliable subsea insulation	DOWSIL™ XTI-1003 RTV silicone rubber insulation helps achieve a more reliable, cost-efficient and lower-risk subsea wet insulation system for HP/HT equipment used in deep water production and tieback systems. It has potential advantages over syntactic urethanes, epoxies and silicones to help prevent flowline blockages and provide specified no-touch times for shutdowns.
CoolComfort breathable pillow	Pillows made with CoolComfort Breathable technology contain a unique porous material which lets heat and humidity escape. Addressing the growing need for temperature control in the sleep environment, it provides refreshing coolness all night long.
InstantComfort pillow	Pillows with CoolComfort Instant technology provide instant and lasting relieving coolness, helping people fall asleep and stay asleep. A velvety soft touch and excellent heat transfer creates an enhanced cooling sensation providing both immediate comfort and a long-lasting cooling effect.
SustainableComfort foam	High-resilience foam for bedding and domestic furniture made with VORAGUARD™ offer halogen-free, clean flame-retardant properties that help meet demanding regulations. This material is designed to self-extinguish enabling improved fire safety along with enhanced comfort and better indoor climate.
CleanComfort washable pillow	Pillows made with CleanComfort Washable technology are quick drying and machine washable, enabling a hygienic sleep environment. It combines a soft comforting feel with a robust foam core that can withstand washing and does not support microbial growth. These pillows provide constant support even with prolonged use, with no fluffing required.
Breathable diaper	A diaper that allows the skin to breathe, reducing skin irritation, while ensuring no leakage for maximum protection and confidence. Diapers made with ASPUN™ fiber grade resins and DOWLEX™ polyethylene resins for backsheets are easy to process and enable a cloth-like softness.
Lighter and thinner pull-up diaper	A super thin and lighter diaper made possible with the new blown machine direction orientation (MDO) breathable film powered by DOWLEX™ – an innovative formulation enabling downgauging while not compromising on protection and comfort.
Extreme polyethylene diaper	The extreme PE diaper delivers extreme softness, comfort and performance and enables easier to recycle end-of-life options with a step closer to a mono-material design. Made possible with the first PE resin for mono-spunbond lines ASPUN™ 6000 and the first PE resin for meltblown nonwovens ASPUN™ MB.

Care

Prototype**Description****Dow sandal**

This sandal combines comfort with high abrasion and traction performance and was made with Dow INFUSE™, ELVAX™ and ENGAGE™. INFUSE™ is a unique polyolefin block copolymer. It helps to give the sandal improved dimension stability, higher energy return, a lower compression set, a more comfortable feel and longer durability.

Compression blow form bottles

CONTINUUM™ DMDE-6620 HEALTH+™ Bimodal Polyethylene Resin is a 'game changing' HDPE product that enables weight reduction and enhanced barrier. One of our range of HEALTH+ resins which offer the high levels of quality, compliance, and commitment needed to meet the stringent requirements of healthcare, pharmaceutical, and nutritional applications.

Bioprocessing bag

Our bioprocessing film for the rapidly growing single-use systems for biopharmaceutical manufacturing that can be used in 2D and 3D rocker bags, media bags, and bioreactors. These disposable systems provide many advantages over stainless steel equipment including reduced downtime for cleaning leading to faster turnarounds and reduction of contamination risks.

Ampoules

Blow Fill Seal is a fully automated, customizable, aseptic filling process for medical products. Our HEALTH+™ resins are advantageous for specific ophthalmic and respiratory products where flexibility, squeezability, and clarity are important for administration.

3D printed recycling bin

This recycling bin was 3D printed using Dow IMAGIN3D™ printing technology. This 3D printed part is not only made from the world's first printable polyethylene-based resin, it can also be recycled, reprocessed into pellets, and reprinted without degradation to material properties. Leveraging the technology that enabled IMAGIN3D™ Polyethylene OBC – the world's first 3D-printable polyethylene – Dow is exploring how to incorporate post-consumer recycle streams in 3D printing to bring life to new, fully-recyclable parts.

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