Explore Mobility Innovations at K 2025

We want to keep bringing the planet closer together while transforming the transportation sector with materials that reduce greenhouse gas emissions and use less resources.

Visit the Dow building 04.1 just outside Hall 4 at K 2025 to discover our latest innovations demonstrating how we are advancing materials and technologies that maximize performance, durability, comfort and safety while minimizing material usage. From under-the-hood components to bumpers, car frames, door panels, hoses and belts, our materials help to reduce vehicle weight and enhance circularity without compromising quality or safety.

K 2025 offers the ideal platform to engage with and meet experts who would love to explore opportunities to collaborate on the next generation of innovative materials with you. You'll find a comprehensive overview of **Dow MobilityScience™** samples below.

SAMPLE	DESCRIPTION
BEV multi-layer thermoplastic coolant hose	Enabling new hose structures addressing evolving design requirements of battery electric vehicles. Enhanced tie layer performance in toughness and temperature resistance with BYNEL™ Adhesive Resin to bond polyolefin layers to polar layers like polyamide. Designed for flexibility, temperature resistance, processability and designed to enable recycling.
BEV multi-layer thermoplastic coolant hose prototype	The versatility of BYNEL™ Adhesive Resins is demonstrated by Dow's multilayer thermoplastic hose prototype, which combines PE/PA tie layer technology featuring BYNEL™ Adhesive Resins and DOWLEX™ Polyethylene Resins for enhanced design flexibility.
NORDEL™ EPDM for more sustainable weatherseals	Formulations helping enable the incorporation of alternative bio-circular or circular materials through novel NORDEL™ EPDM solutions, for circularity and lower carbon footprint in weatherseals. Enabling the usage of circular and bio-circular fillers like recycled carbon black from end-of-life tires or bio-circular process oils.
NORDEL™ EPDM automotive sponge and microdense weatherseal	NORDEL™ EPDM helps to provide the excellent foaming, curing, compression set, physical properties and aesthetics needed for complex sponge applications. Additionally, it offers enough strength to maintain critical performance after reducing density of weatherseals for lightweighting to decrease tailpipe emissions.
NORDEL™ EPDM automotive coolant hose	NORDEL™ EPDM offers high tensile properties, exceptional compression set and excellent heat ageing performance, for longer lifespan. High quality EPDM with extremely low gel levels can help deliver superior aesthetics while reducing scrap by lowering surface defects. New NORDEL™ products help to achieve high temperature stability.
NORDEL™ EPDM automotive air intake hose	NORDEL™ EPDM is gel free, has low VOC and supports quick carbon black incorporation for easy processing. It offers consistent quality, better strength and dimensional stability, higher productivity with higher filler loading. Additionally, the grades offer low compression set and low temperature flexibility.
NORDEL™ EPDM TPV hose	NORDEL™ EPDM is gel free, has low VOC and supports single step TPV production. High EPDM viscosity helps providing excellent phase inversion for superior performance. TPV facilitates recyclability, minimizes material waste and enables lightweighting, thereby contributing to reduced carbon emissions and enhanced energy efficiency.
NORDEL™ EPDM TPV dense profile	NORDEL™ EPDM is gel free, has low VOC and supports single step TPV production. High EPDM viscosity helps providing excellent phase inversion for superior performance. TPV facilitates recyclability, minimizes material waste and enables lightweighting, thereby contributing to reduced carbon emissions and enhanced energy efficiency.
NORDEL™ EPDM automotive poly-V belt	NORDEL™ EPDM offers excellent adhesion and cohesion to fabrics and Extra Fast Cure grades offer greater production efficiency and great performance. NORDEL™ can improve fuel efficiency, aids in passenger safety and longer product lifespans by helping provide belts with high mechanical strength and high heat resistance properties.
NORDEL™ EPDM automotive sponge corner joint weatherseal	Differentiated solution to achieve stringent aesthetic and performance requirements. Excellent surface finish without any porosity in production-sensitive applications by providing faster rate of cure. Enables quick mold filling and faster cure for injection molding and transfer molding processes.

NORDEL™ EPDM automotive sponge weatherseal	NORDEL™ EPDM helps provide the excellent foaming, curing, compression set, physical properties and aesthetics needed for complex sponge weatherseal applications. Can help to reduce overall carbon emissions with XFC grades. Dry&Oil extended NORDEL™ with broader molecular weight distribution can help mix the compound faster.
NORDEL™ EPDM co-extruded automotive sponge and dense weatherseal	NORDEL™ EPDM helps bring a good balance of physical properties and aesthetics, as well as helps provide the excellent foaming, curing, compression set, physical properties and aesthetics. High quality EPDM with extremely low gel levels can help deliver superior aesthetics while reducing scrap by lowering surface defects.
NORDEL™ EPDM automotive dense weatherseal	NORDEL™ EPDM can help bring a good balance of physical properties and aesthetics for dense weatherseal compounds. High quality EPDM with extremely low gel levels helps to offer superior aesthetics while reducing scrap percentage by lowering surface defects. XFC and XFM grades offer increased production efficiency.
NORDEL™ EPDM tractor hose	NORDEL™ EPDM is gel free, has low VOC and supports quick carbon black incorporation. It offers consistent quality, better green strength and dimensional stability, as well as high filler loading. NORDEL™ EPDM can help achieve high temperature stability as well as excellent compression set at low and high temperature.
ENGAGE™ Polyolefin Elastomers for translucent TPO	Solutions for seamless designs with translucent bumpers incorporating hidden sensors and lighting, realized with innovative ENGAGE™ Polyolefin Elastomers, bringing excellent low-temperature toughness in TPO and up to 60% light transmittance.
ENGAGE™ Polyolefin Elastomers for bumper fascia	TPO is a polymer blend with three ingredients: Polyolefin Elastomer, Polypropylene and Talc. The quantity and the ratio of each ingredient can be adjusted to produce a formulation that delivers exactly the right balance of toughness and stiffness. The family of ENGAGE™ 11000 POEs is well suited for a variety of TPO specifications.
TPO for interior & exterior	Made with ENGAGE™ Polyolefin Elastomers, polypropylene (PP) and talc, to achieve impact resistance, stiffness and aesthetic requirements of automotive interior and exterior parts.
Hard TPO for soft-touch interior applications	ENGAGE™ 11000 Series Polyolefin Elastomers are suitable for vehicle's instrumental panel and B-pillar applications. They can support monomaterials applications with lower costs, soft and good haptics, as well as reduced carbon footprint.
INFINAIR™ Polymers for 3D Loop technology for automotive seats	Mechanically recyclable seat cushion solution with INFINAIR™ Polymers for 3D Loop Technology. Innovative seating material for the vehicles of the future designed for comfort and recyclability. The solution is breathable, washable and contains low VOCs/odor. Offers excellent thermal management and very low moisture retention.
EVOAIR™ POE Leather Solutions for automotive seats	EVOAIR™ POE Leather is a polyolefin-based material that offers both high performance and a range of design and safety benefits. The material is lightweight (25% to 40% lighter than PVC leather), has low VOCs/odor and comes from non-animal origin. It offers smooth soft finish, exceptional color stability and weathering resistance.
Polyolefin Elastomers for airbag covers	Aesthetically pleasing airbag cover hiding the complex system underneath allowing high-speed deployment without producing sharp shards that could cause injury. Our Polyolefin Elastomers offer excellent low temperature ductility and mechanical performance, color stability, lower cycle time, and enhanced surface aesthetics.
Functional Polymers for airbag housing	Dow offers polymer modifier technologies for polyamide toughening. They typically combine increased low-temperature impact properties and exhibit strong compatibility with polyamide. Functional Polymers offer high-flow impact modification for tough and super-tough polyamide compounds, including good performance at very low temperature.

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