Explore Infrastructure Innovations at K 2025

To ensure quality of life for future generations, we have to continually innovate to build environments that can withstand the test of time.

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 our prototypes in the **INFRASTRUCTURE** segment below.

SAMPLE	DESCRIPTION
DOWLEX™ PE-RT for district heating pipes	Pre-insulated flexible pipes are essential in the district heating network. DOWLEX™ 2388 PE-RT meets the standard material requirements for flexible district heating pipes. Compared to traditional resins, DOWLEX™ 2388 PE-RT provides excellent processability, cost-efficient production and easy mechanical recycling.
CONTINUUM™ Bimodal Polyethylene Resins for cable ducts	New CONTINUUM™ DGDA-3620 NT Bimodal Polyethylene Resin meets highly demanding technical requirements of power transmission network operators for cable duct materials. It combines excellent performance in temperature resistance, crack resistance and mechanical strength.
DOWLEX™ PE-RT for underfloor heating pipes	Most recently added to the portfolio, DOWLEX™ 2366 PE-RT Resin represents an expansion of Dow's family of Polyethylene Resins of Raised Temperature Resistance (PE-RT). It was developed to help enhance production line speed, while maintaining typical DOWLEX™ PE-RT characteristics such as high flexibility or glossy surface finish.
CONTINUUM™ Bimodal Polyethylene Resins for PE 100 pressure pipes	CONTINUUM™ DGDA-2610 BK Bimodal Polyethylene Resin is a certified material that exceeds performance requirements according to PE100 ISO standards. Its excellent mechanical strength allows pipe converters entering applications with enhanced requirements for pressure resistance.
CONTINUUM™ Bimodal Polyethylene Resins for PE 100-RC pressure pipes	CONTINUUM™ DGDA-2610 BK Bimodal Polyethylene Resin is a certified material that exceeds performance requirements according to PE100 ISO standards. Its excellent mechanical strength allows pipe converters entering applications with enhanced requirements for pressure resistance.
DOWLEX™ PE-RT for hot & cold drinking water	An industry icon in hot & cold-water piping, DOWLEX™ 2388 PE-RT resin has a proven track record of delivering excellent and reliable performance. This Polyethylene of Raised Temperature Resistance Type II resin offers enhanced productivity, flexibility and recyclability. A bio-based version is available as well.
ENDURANCE™ Compounds for Cable Systems for extra-high voltage cables	ENDURANCE™ HFDD-4201 Compounds for Cable Systems is a novel cross-linked polyethylene compound generating less methane, which reduces degassing time to as little as one day. This allows significant carbon footprint reduction of cable manufacturing and increases production efficiency.
REVOLOOP™ Recycled Plastics Resins for cable jacket compounds	REVOLOOP™ 3215 BK Recycled Plastics Resins is a black LLDPE jacketing compound containing 30% PCR resin suitable for use in power and telecom cable jacketing applications. This grade is part of a family of PCR resins containing materials that combine convenience, efficiency, and quality, while offering sustainability benefits.
AXELERON™ Telecom Cable Compounds for fiber optic cable jackets	AXELERON™ 6321 BK Telecom Cable Compound is a black, UV-stabilized HDPE cable jacket material designed for power and telecommunication applications. It is laser printable, has a low coefficient of friction and extremely low shrinkage to enable high fiber count in smaller diameter cables and increase cable installation efficiency.

Be part of Generation Transformation

ENGAGE™ PV Polyolefin Elastomers for photovoltaic encapsulant films	Ethylene-alpha-olefin copolymer offering high transmittance, excellent electrical properties, and exceptional resistance to damp heat aging and UV aging for outstanding weather resilience.
Photovoltaic module	Module sample with TOPCon cell encapsulated on both sides with films based on ENGAGE™ PV Polyolefin Elastomers.
NORDEL™ EPDM building profiles	NORDEL™ EPDM with extremely low gel levels helps deliver superior aesthetics while reducing scrap with lowering surface defects. XFC and XFM grades offer increased production efficiency. Based on Advanced Molecular Catalyst technology it has a lower carbon footprint compared to EPDM from conventional catalyst systems.
NORDEL™ EPDM roofing membrane	NORDEL™ EPDM resins are well known in the industry for producing membranes that combine longevity, weather resistance, flexibility and low temperature toughness. Roofing and waterproofing membranes made with NORDEL™ are easy to process, even at high filler loadings and offer remarkable mechanical performance and service life.
Polyolefin insulation foam	High thermal-resistant polyolefin insulating foam providing lightweight properties, moisture resistance, and superior insulation performance. Specifically engineered to address the demanding requirements of building and construction applications.
Luxury polyolefin tile	All polyolefin-based structure addressing circularity in building materials: • SURLYN™ Ionomers for improved scuff resistance and aesthetics • ENGAGE™ Polyolefin Elastomers or INFUSE™ Olefin Block Copolymers as elastomeric polymer matrix in backing layers • FUSABOND™ Functional Polymers for increased filler acceptance/HFFR
Carpet backing tile	ENGAGE™ Polyolefin Elastomers or INFUSE™ Olefin Block Copolymers for enhanced durability and dimensional stability of carpet backings. ELVALOY™ Copolymers for Alloys modifiers and FUSABOND™ Functional Polymers compatibilizers for highly filled formulations.
Aluminium composite panel	Aluminium composite panel for facade applications where lightweight, durability and safety are crucial. Panel structure based on BYNEL™ Adhesive Resins tie layers securing panel long exploitation cycle and FUSABOND™ Functional Polymers compatibilizers in the core supporting fire performance class A2.
Wood plastic composite	Rich portfolio of polymers offering innovative options with improved processability and performance to make lightweight and weather resistant wood plastic composites. SURLYN™ Ionomers for enhanced UV stability and scratch resistance. FUSABOND™ Functional Polymers compatibilizers for optimal filler loading and optimal mechanical performance.

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