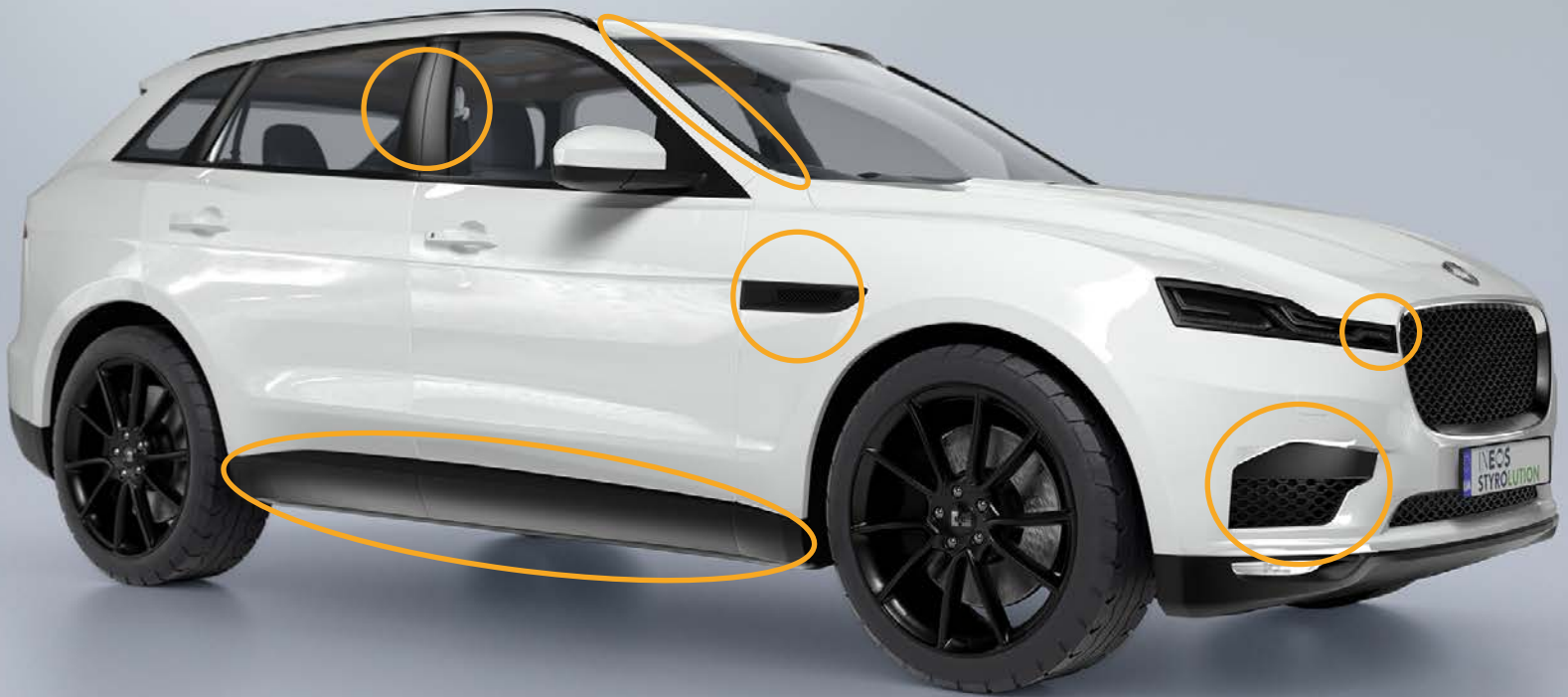


SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY

EXTERIOR TRIMS



EXTERIOR TRIMS BLENDING PERFORMANCE AND AESTHETICS

APPLICATION

Like many exterior components, exterior car trims must blend performance and aesthetics. Dimensional stability, impact strength, excellent UV-, scratch-, high heat and chemical resistance as well as excellent flowability are deciding factors for choosing material for exterior automotive applications. Luran® S, Luran® SC and Novodur® High Heat meet the aesthetic expectations due to their surface finishing options, such as high gloss car body colours, piano black, metal look and film decorated or textured surfaces. These characteristics round out our broad styrenics portfolio for exterior trims.

OUR SOLUTIONS

INEOS Styrolution's Luran S 778T can be used for uncoated textured low-gloss trim surfaces. It combines dimensional stability, impact strength, excellent UV-, scratch- and chemical resistance when used with the best UV-package SPF30. New developments will include alternatives for high gloss surfaces.

Luran SC (PC/ ASA) is the ideal product range when enhanced heat and mechanical properties, for example for trucks, are required. In addition to these key properties, hot stamping foils can easily be processed as an additional decorative solution.

Thanks to the excellent paintability without pre-treatment, Novodur High Heat is the ideal choice for high gloss painted exterior trims. The selection of grade depends on the position of the application and its desired function as well as its heat and impact requirements. Novodur H702, easy flow high heat ABS, is the solution for long high-gloss deep black tailgates and for fender trims.

Platable Novodur grades, Novodur P2MC and Novodur Ultra 4140PG, are suitable for real metal-look trims. In addition, the Novodur HH-106 G2 is a glass-fibre reinforced high-heat ABS injection moulding grade providing a balanced property profile, which is required for the 2K moulding of the inserts.

In-mould coating processing technology has become more popular in the industry. It offers more cost-effective alternative compared to traditional painting. This new technology sets new standards in terms of efficiency as the paint is directly injected between the mould and the part surface with no second work step needed. In addition, the finishing option offers high UV resistance, excellent processability and is extremely scratch-resistant. The coating ensures longer lasting quality and sustainability. Properties such as enhanced heat and chemical resistance are important when choosing the material for windscreen A-pillar body trims for new high runner SUVs. Luran S KR 2864C is the material of choice for the exterior application using this one-step technology.



KEY PROPERTIES



TECHNICAL DATA – NOVODUR® & NOVODUR® HH

	Units	Novodur® P2MC	Novodur® Ultra 4140PG	Novodur® HH-106	Novodur® H702	Novodur® HH-112	Novodur® H801	Novodur® Ultra 4255	Novodur® HH-106 G2
Description		Electroplated grades		Painted grades					Re- inforced
Type		High flow platable ABS	High impact & heat platable ABS/ PC	High heat ABS	High heat high flow ABS	Very high heat ABS	High impact ABS	Very high impact ABS/ PC	8% GF high heat ABS
MVR 220 °C/10kg	cm³/10min	25	13*	7	14	5	10	17*	4
Charpy notched 23 °C	kJ/m²	25	41	16	19	11	35	55	6
Charpy notched -30 °C	kJ/m²	16	33	7	9	6	14	55	4
Tensile modulus	MPa	2200	2100	2400	2500	2700	2400	2100	3600
Vicat VST/B/50	°C	96	106	106	104	111	106	110	107

*260 °C/5kg

TECHNICAL DATA – LURAN® S & LURAN® SC

	Units	Luran® S 778T	Luran® S 797S	Luran® S KR2864C	Luran® S KR2866C
Description		Pre-coloured unpainted grades			
Type		High heat ASA	High impact ASA	High flow PC/ ASA	ASA/ PC
MVR 220 °C/10kg	cm³/10min	5	6	25*	11*
Charpy notched 23 °C	kJ/m²	15	40	55	35
Charpy notched -30 °C	kJ/m²	4	9	11	9
Tensile modulus	MPa	2500	2000	2600	2000
Vicat VST/B/50	°C	104	90	120	90

*260 °C/5kg