

VALUE PROPOSITION FOR INEOS STYROLUTION SUBSTRATE DECORATED WITH KURZ FOILS

PROVEN TRACK RECORD

INEOS Styrolution has a proven track record of successful decorated applications with KURZ foils which are used in the automotive market.

VERSATILE DESIGN OPTIONS

INEOS Styrolution material can be used pre-colored, unpainted and partially covered with KURZ foils, offering more freedom to the designers.

SHORT DEVELOPMENT TIME

INEOS Styrolution and KURZ have validated solutions of combining foils and substrates which allows reduced risk of failure and shorter development time.

SUPERIOR ADHESION

INEOS Styrolution's styrenics product portfolio offers superior adhesion to KURZ foil for decorative solutions with hot stamping and IMD technology.

EASY PROCESSING AND REDUCED REJECT RATE

High flow materials from INEOS Styrolution's portfolio offer a higher processing window for in-mold decoration, no foil deformation, allow complex part design and reduced reject rate of finished parts.

LOW BLISTERING

INEOS Styrolution offers specific material diminishing surface defects and blisters on the foil under high humidity conditions.

LONG-TERM SURFACE QUALITY

Decorative solutions offer long-term surface quality, resistance to UV, humidity, chemicals and scratch.

DECORATIVE SOLUTIONS FOR THE AUTO- MOTIVE INDUSTRY

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PLEASE NOTE

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TWO GLOBAL SUPPLIERS PROVIDE DECORATIVE SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY

INEOS Styrolution is the only leading styrenics company truly globally active with a broad product portfolio and proven customized approach to co-development. INEOS Styrolution delivers innovation and professional support with an experienced, personal touch. As the worldwide leader in automotive styrenics specialties INEOS Styrolution is a reliable global supplier with wide-reaching application expertise and a long-term commitment to innovation.

The KURZ Group is a global leader in hot stamping and coating technology. KURZ develops and manufactures decorative and functional layers applied to carrier foils, stamping tools and machines for a large variety of applications for different industries. In plastics decoration, KURZ offers intelligent insert molding, hot stamping and IMD solutions that provide exceptional results as well as cost savings compared to conventional processes. The foil product range includes endless designs, single images, cutting-edge metallizations and unique chromium effects for various design possibilities.

HOT STAMPING

HOT STAMPING		FOIL TYPE	UV TEST ON MATERIAL UNCOVERED	UV TEST ON SURFACE COVERED WITH FOIL	HUMIDITY & HEAT RESISTANCE 240 h/40 °C/100 % RH	HYDROLYSIS RESISTANCE 72 h/90 °C/98 % RH		
TYPE	GRADE		METHOD	GREY SCALE	METHOD	COLOR DEVIATION DE	ADHESION ACCORDING ISO 2409	
INTERIOR								
HIGH FLOW MEDIUM HEAT ABS	NOVODUR® H605	GLC 73725-05 REAL CHROME	PV 1303 1000 h	4.0	ISO 4892 2A 1500 h	0.45	PASSED/BLISTER	PASSED
HIGH HEAT ABS	NOVODUR® HH-106			4.0		0.73	PASSED/BLISTER-BUBBLES	PASSED
EXTERIOR								
HIGH FLOW HIGH HEAT PIANO BLACK SAN	LURAN® HH-120			5.0		0.68	PASSED/MODERATE BLISTER	PASSED
HIGH HEAT ASA	LURAN® S 778T SPF30	GLC 73725-05 REAL CHROME	ISO 4892 2A 1500 h	4.5	ISO 4892 2A 1500 h	0.50	PASSED/MODERATE BLISTER	PASSED
OPTIMIZED HIGH HEAT ASA	LURAN® S 778T Q465 SPF30			4.5		0.80	PASSED/NO BLISTER	PASSED

IN MOLD DECORATION

IN MOLD DECORATION		FOIL TYPE	UV ACCELERATED WEATHERING ON SURFACE COVERED WITH FOIL	HUMIDITY & HEAT RESISTANCE 240 h/40 °C/100 % RH	HYDROLYSIS RESISTANCE 72 h/90 °C/98 % RH	
TYPE	GRADE		METHOD	COLOR DEVIATION DE	ADHESION ACCORDING ISO 2409	
INTERIOR						
HIGH FLOW MEDIUM HEAT ABS	NOVODUR® H605	X904650-40VP DARK RHODIUM PRINTED BRUSHED	PV 1303 1000 h	1.4	PASSED	PASSED
HIGH HEAT ABS	NOVODUR® HH-106			1.7	PASSED	PASSED
HIGH HEAT HIGH IMPACT ABS/PC	NOVODUR® ULTRA 4105			1.2	PASSED	PASSED
HIGH FLOW HIGH HEAT HIGH IMPACT ASA/PC	LURAN® S KR2864C UV			1.5	PASSED	PASSED
HIGH FLOW HIGH IMPACT ABS/PA	TERBLEND® N NM-21EF			1.5	PASSED	PASSED
HIGH FLOW HIGH HEAT PIANO BLACK SAN	LURAN® HH-120			1.0	PASSED	PASSED
EXTERIOR						
HIGH HEAT ASA	LURAN® S 778T SPF30	X904659-80VP CHROME GLOSSY II	ISO 4892 2A 1500 h	1.4	PASSED	PASSED
HIGH FLOW HIGH HEAT HIGH IMPACT ASA/PC	LURAN® S KR2864C UV			2.1	PASSED	PASSED
HIGH FLOW HIGH HEAT PIANO BLACK SAN	LURAN® HH-120			1.3	PASSED	PASSED