

KIMOTO

3D formable hard coated film

LevSurf™ F04 / F18 / F13

Transition from flat to curved HMI designs



Next-Generation IMD/FIM Hard Coated Film

LevSurf™ is a hard-coated substrate for film insert molding (IMD/FIM) that enables 3D forming. While conventional hard coated materials can only be used for flat designs, the new LevSurf™ series enables seamless three dimensional designs in addition to the durability of hard coated films.

LevSurf™

F04 / F18 / F13

LevSurf™ is a UV cured film for film insert molding (IMD/FIM) with excellent hardness and formability. Due to the high optical quality it can substitute display glass, lowering the vehicle weight and therefore contributing to the reduction of cost and CO2 emissions.

Excellent form- and stretching properties

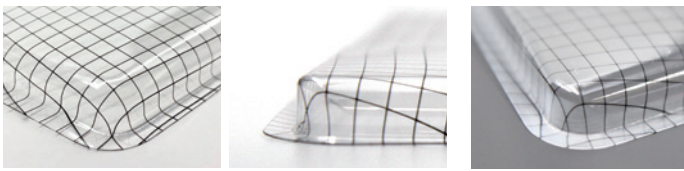
This product is processed at temperatures between 160-170°C with great formability in high pressure and vacuum forming.

LevSurf.

Tight edges and curves are possible without degradation of the optical quality.

Conventional products

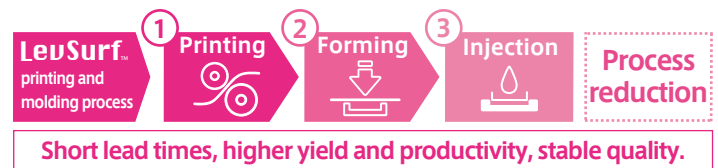
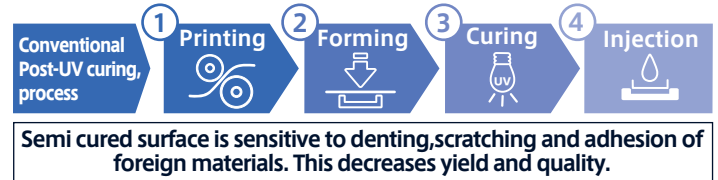
Standard hard coatings will display an increase in haze or even create cracks.



*Square size 5mm, 160°C-170°C vacuum and pressure molded

LevSurf™ Process Advantage

LevSurf™ is a pre-UV cured hard coating, which offers advantages during the manufacturing process.



Product Line-up

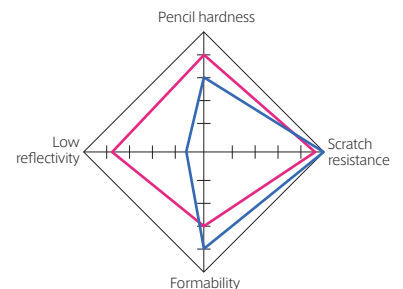
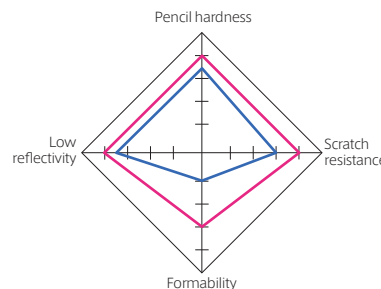
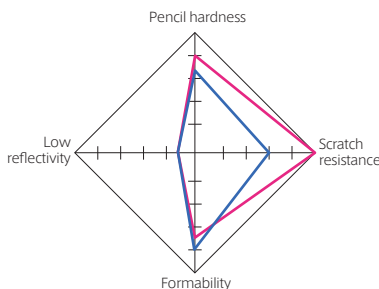
We offer three standard products to match your project requirements.

Features	Clear, Anti Fingerprint	CL, Anti-Ref, AF	AG, Anti-Ref, AF
Type	F04	F18	F13
Features	Gloss Antifingerprint surface with high hardness and scratch resistance. Suitable for decorative panels in automotive, consumer goods and home appliances.	Gloss Antifingerprint surface with Anti-reflective coating, with high hardness and scratch resistance. Suitable as cover lens for high resolution display integration in automotive, consumer goods and home appliances.	High transparent Antiglare / Antifingerprint surface with Antireflective coating. Ideal cover lens for high resolution displays for applications where an improved antiglare solution is required. (e.g. Automotive)

Structure	Protection Film Clear HC Layer PMMA/PC 250 μm Protection Film	Protection Film Anti-Reflectance Clear HC Layer PMMA/PC 250 μm Protection Film	Protection Film Anti-Reflectance Anti-Glare HC PMMA/PC 250 μm Protection Film
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Performance comparison

— LevSurf™
— Competing products



Chemical resistance

Superior resistance against the following chemicals and fluids:

Sun screen, hand cream, acetone, methyl ethyl ketone, alcohol, hydrochloric acid, sodium hydroxide solution, cleaning solution, artificial sweat solution, beverages