

LUCITE® ELVAKON®

Case Study for Co-extrusion



Enhance your coextruded sheet properties with Lucite® Elvakon® PMMA coating solution.

Polymer: Lucite® Elvakon® PMMA compounds

Application: Coextruded sheet and profile – for coating of substrates ABS, PVC, HiPS

Processing: Coextrusion / Coatings

Key Benefits:

- Outstanding weatherability
- Aesthetic control
- High impact resistance
- Rheology match to substrate
- Colour matched
- Responsive technical support

The Challenge

Are you looking for a material to produce weatherable and high impact coextruded sheets offering a wide range of surface aesthetics and colours?

To cover your ABS, PVC and HiPS substrates, you need a cost effective and high value production solution that:

- Provides outstanding weatherability and colour/gloss retention
- Offers a huge range of gloss levels and surface finishes
- Maintains impact resistance of original sheet
- Is rheology matched to your choice of substrate
- Demonstrates excellent adhesion to substrate
- Is compatible for substrate reworking
- Is processable on existing equipment
- Get responsive technical support

The Solution: Tailor-Made PMMA coating grades from Lucite International

Combining a huge range of Lucite® Elvakon® PMMA

DIAKON® ELVAKON® TUFCOAT® ACRYPET®



Your unique partner for
tailor made PMMA solutions

coextrusion products with a responsive technical support, Lucite International helps you to produce weatherable extruded sheet, with a choice of surface finish, whilst maintaining the cost benefits via utilization of traditional non-weatherable substrates.

- Design durable UV and weather resistant sheets
- Control your surface aesthetic
- Create the PMMA with the properties you need
- Get responsive technical support

Design durable UV and weather resistant sheets

Lucite® Elvakon® possesses outstanding weathering performance and colour retention which provides protection for non-weatherable substrates.

Dramatically improve your UV resistance and weathering with Lucite® Elvakon® PMMA

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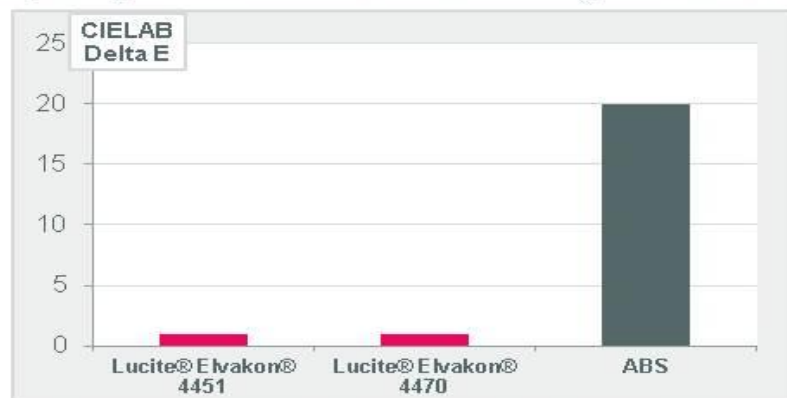


Fig. 1: Comparison of ABS Weathering with / without Lucite PMMA cap layer Exposed 1 000 h QUV

Substrate	Surface type	Gloss (60°)	Elvakon® grade
ABS / PVC	Super Matt	<20	4451
	Fine Satin	50	4461
	High Gloss	>85	4470
	High Gloss	>85	4474
HiPS	High Gloss	>85	4480
	Fine Matt	<20	4494

Figure 2: Surface effect available in standard Elvakon® PMMA grades.

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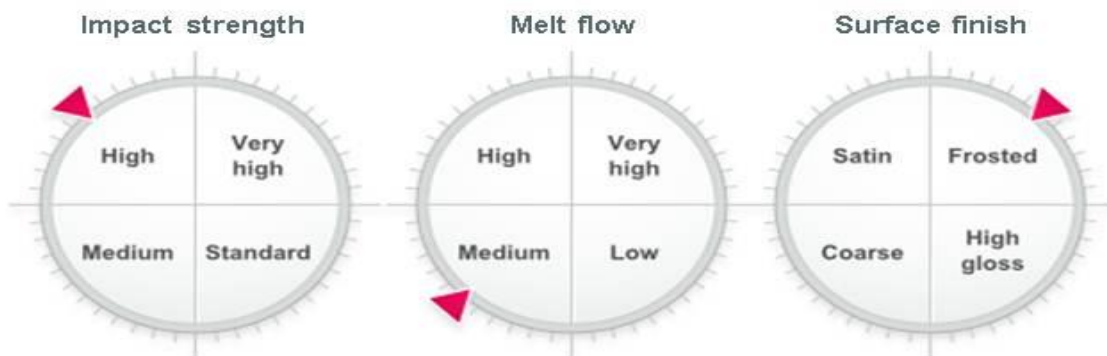
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Control your surface aesthetic

Lucite PMMA products for coextrusion provide a huge range of surface finishes and gloss values – including high gloss, frosted and smooth silk/satin surfaces. Select from an existing range of effects or benefit from a Lucite International bespoke solution which provides the surface effect you are looking for.

Create the PMMA with the properties you need

On top of surface finish choices, Lucite® Elvakon® products demonstrate a wide range of impact strengths, rheology profiles, colours and substrate suitability. Grades can be tailor-made to suit your most demanding application requirements, so dial-in your property requirements.



*Fig3: Example of property composition of Lucite PMMA:
Create the PMMA corresponding to your needs with Lucite® Elvakon® coextrusion grades*

Get responsive technical support

Save time in solving your technical issues with the accessible and responsive technical support of Lucite. Technical experts are ready to answer all your technical problems or questions quickly to accelerate your time-to-market:

- Faster product approval to reduce your time- to-market
- Quick response from Technical Service for product range and processing advice
- Local representation

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