

Product Data
FASSON Overlam Polycarb 50 Matt / S8020 / PET36**AJW475**

Issue date: June 9, 2006

Facestock

A clear, velvet textured polycarbonate overlamination film with excellent clarity.

Basis weight: 60 g/m² ISO 536
Caliper: 0.050 mm ISO 534

Adhesive

S8020 is a clear permanent adhesive featuring excellent UV resistance and weatherability together with good adhesion performance.

Type: Emulsion Acrylate
Coat weight: 20 g/sqm
Initial Tack: 230 N/m FTM 9 glass
Peel Adhesion: 460 N/m FTM 2 steel 24 hrs.
Min. application temperature: +5 °C
Min. service temperature: -40 °C
Max. service temperature: +125 °C

Liner

PET 36 is clear durable polyester liner that ensures optimum clarity of the label. Without back imprint.

Basis weight: 0,051 g/m² ISO 536
Caliper: 0,036 mm ISO 534
Tensile Strength: DIN 53455
Min: 16 kg/mm² MD

PET 36 is suitable for high speed conversion and dispensing.

Total construction caliper

0,106 mm

Typical Values

Typical values, not for specification use:
see Appendix 1.

Applications and use

Overlam Polycarbonate is primarily used as an alternative to subsurface printed polycarbonate nameplates, touch pads and dashboard. Typically overlaminated onto a printed PET and other filmic labels to achieve a similar effect to subsurface printed polycarbonate.

Polycarbonate overlamination film is extremely tough, scratch resistant and hardwearing. It is ideal for applications where display panels or labels need protection from heavy use. It has a non-reflective surface for low glare and is finger-print resistant.

Printing and conversion

When diecutting labelstock overlaminated with polycarbonate, dies should be clean, sharp, and tooled for this purpose.

This product is not designed for thermal transfer or conventional printing.

The use of polycarbonate film can aid label dispensing.

UL approval

This product is UL recognized for indoor use, the file number is MH27538. For specific information on approved conditions, see appendix 2.

RoHS / Regulation 2002/95/EU

The substances listed in article 4 lid 1 of 2002/95/EU (RoHS) are not intentionally used in this product. The concentration limits of these substances will not exceed the set maximum concentration limits as provided in the proposed amendment for 2002/95/EU.

Shelf life

Two years when stored at 22 °C and 50 %rh.

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Performance Data

Note: the following technical data should be considered representative or typical only and should not be used for specification purposes.

Peel Adhesion:

FTM1: 180°, 300 mm/min, dwell time: 48 hours

| Surface | N/25mm |
|-----------------------------|--------|
| ABS | 10,0 |
| Aluminium | 13,0 |
| Automotive lacquered panels | 10,0 |
| Glass | 11,0 |
| HDPE | 7,0 |
| LDPE | 5,0 |
| PA6 | 14,0 |
| Stainless Steel | 17,0 |

Chemical Resistance:

The performance results are based on 4 hours immersions at room temperature unless otherwise noted. Samples were applied to the test panel and conditioned for 24 hours before immersion and evaluated immediately upon removal. Peel adhesion was measured according to FTM1.

| Chemical | Test Substrate | N/25mm | Visual appearance | Edge Penetration (mm) |
|--------------------------|----------------|--------|-------------------|-----------------------|
| Brake Fluid ¹ | Glass | 12 | No change | 0 |
| Diesel ² | Glass | 11 | No change | 0 |
| Engine Oil ³ | Glass | 12 | No change | 0 |
| Gasoline ⁴ | Glass | failed | Edge lifting | Edge lifting |
| Heptane | Glass | 6 | No change | 0 |

¹ DOT 4 Synthetic (One Way)² TOTAL³ TOTAL quartz 700, 10 W 40⁴ TOTAL Euro 95

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Appendix 2:
Compliance Data

UL – Underwriters Laboratories

File Number: MH27538

This material is UL approved as pressure-sensitive overlamination for producing finished printed labels. The condition of acceptance is:

Affixed to polyester label material, maximum temperature 100°C (212°F), minimum temperature -40°C (-40°F). Suitable where exposed indoors to high humidity or occasional exposure to water.

Warranty

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