



PET white glossy

Permanent

Description

PET white glossy has been developed for subsequent labelling in thermal transfer printing process. Due to the homogeneous material surface, an extensive, opaque color transfer is possible. The film is also characterized by an excellent adhesion to low-energy substrates such as polyethylene and polypropylene. Equipped with glassine backing papers, PET white glossy is recommended for automatic dispensing systems. In addition this product is also UL-certified (MH61146).

Construction

| Product / Color | Foil Thickness in mm | Adhesive thickness in mm | Backing paper thickness in mm (g/m ²) | Backing paper |
|------------------|----------------------|--------------------------|---|--|
| PET white glossy | 0,053 | 0,020 | 0,056 (62) | Glassine paper, one side siliconcoated |

Typical physical values

| | |
|---|---|
| Raw material | 1904080 |
| Material | Polyester |
| Temperature resistance (glued on aluminium) | -40° C to +150° C no visible changes |
| Dimensional stability (tested acc. DIN 30646) | classification number 02 (shrinkage < 0,2%) |
| Dielectric strength (VDE 0303, T2) | min. value: 82,2 kV/mm average value: 84,1 kV/mm |
| Fire behaviour when glued | self-extinguishing after 15 seconds, no dripping |
| Opacity | covers the contrasting colors of the surface well |
| Salt spray (DIN 50021 SS) | 150 h no complaints |
| Fungus | fungus resistant, not fungus supporting |
| Substrate corrosion | causes no corrosion on the glued surface |

| | |
|------------------------------|--|
| Adhesive | acrylic based self-adhesive, suitable for polyethylene and polypropylene |
| Adhesive type (DIN 30646) | permanent, low temperature, special adhesive |
| Min. service temp. | +4° C |

Functioning / Durability

According to present knowledge the following functioning and durability of PET white glossy can be expected. Usually not during the following times with vertical outdoor weathering, if the foils have been processed and glued according to recommendations:

| | |
|----------------------------------|--|
| Durability | outside use: 2 to 3 years inside use: almost unlimited |
| Shelf life | 12 months |
| Recommended storage condition | 23° C / 50% relative humidity. Storage of the foil rolls/label rolls in polybags is recommended. |

Processing

| | |
|------------------------------|--|
| Printing | Silk screen printing/letterpress printing/flexographic printing/offset printing Before series production a color qualification test is recommended. Note: It is recommended to test the base pressure also for chemical resistance, if necessary! |
| Thermal transfer printing | The special surface coating of PET white glossy is very well suited for the lettering in the thermal transfer procedure. The visual appearance and the capacity of lettering depend on the used ribbon. To achieve a perfect printout the print speed and the transfer temperature of the heat bar are to be varied, if necessary. |
| Pressing | Sharp knives and a minimal web tension is recommended in order to avoid a possible adhesive bleed. |

Adhesion (N/10 mm)

| | |
|-----------------------|-----|
| Aluminium | 5.6 |
| Stainless steel | 5.6 |
| Polycarbonate | 5.4 |
| Phenolic resin | 5.5 |
| ABS | 5.3 |
| Polystyrene | 5.1 |
| Polypropylene | 4.7 |
| HD-Polyethylene | 3.6 |
| LD-Polyethylene | 3.4 |
| Smooth powder coating | 5.2 |

Measured according to Finat test method FTM 2 after 72 h storage at 70 °C. The indicated adhesive values are average values. They are not suitable for specifications.

Resistance to climatic demands

SFW 0,2 S DIN 50018

Demand 2 cycles: no change

Foil glued to stainless steel, tested for 72 h storage in standard climat 23/50, DIN 50014.

Resistance to chemical and solvent

The foils are resistant to most mineral oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis such as:

| Agent | Time | Result |
|----------------------------|------|---------------|
| Heptane | 4 h | No complaints |
| Petroleum | 4 h | No complaints |
| Diesel | 4 h | No complaints |
| Engine oil SAE 15W40 | 4 h | No complaints |
| Brake fluid DOT 4 | 4 h | No complaints |
| Windscreen cleaners | 4 h | No complaints |
| IPA | 4 h | No complaints |
| Toluene | 4 h | No complaints |
| Industrial cleaner (lemon) | 4 h | No complaints |
| Pril | 4 h | No complaints |
| Acid (PH4) | 4 h | No complaints |
| Lye (PH 10) | 4 h | No complaints |

Foil glued to stainless steel, tested after 72 h storage in standard climat 23/50, DIN 50014.

Disclaimer

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This publication replaces all previous versions. All information is subject to change without notice.



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