ACRYLITE®

ACRYLITE® Film

# ACRYLITE® Film 0F072

**Product**

ACRYLITE® Film 0F072 is a high weather resistant, glossy and transparent acrylic film for graphic printings and high quality laminations.

Due to its excellent performance under weathering and UV light exposure, ACRYLITE® Film 0F072 does not present color change or yellowing. Therefore it provides high protection of laminating systems from degradation caused by UV radiation.

Its glossy and very smooth surface leads the film to have an excellent optical quality surface.

**Application**

ACRYLITE® Film 0F072 can be printed on as high quality film decoration and then laminated on different polymeric films and sheets. Laminated decoration films based on ACRYLITE® are suitable for a wide range of molding processes such as thermoforming, and insert molding.

In labels and tapes, ACRYLITE® Film 0F072 can be used as single face layer or clear overlay in laminate systems for high UV and weathering protection. High gloss and quality finishing are achieved.

Thanks to its excellent optical properties and lamination with pressure sensitive adhesives (PSA), ACRYLITE® Film 0F072 is highly recommended for long-term outdoor applications, such as traffic control signs.

ACRYLITE® Film 0F072 has superior optical properties which allows the film to be used as overlay in high quality ID cards.

**Processing**

ACRYLITE® Film 0F072 has good printability and can be printed on using all technologies such as gravure, flexography and digital. In most of the cases any pre-treatment or primers are not required.

ACRYLITE® Film 0F072 can be laminated onto polymeric substrates such as films or extruded sheets based on PVC, PC, ABS, PMMA and ASA by in-line or roll-to-roll heat lamination.

High quality laminates can also be achieved using ACRYLITE® Film 0F072 and other polymeric substrates such as PET, PC, PP, PE and PVC, with the help of pressure sensitive adhesives (PSA) or solvent based adhesives.

The film can be cut-to-size or die cut.

**Sales range**

ACRYLITE® Film 0F072 is delivered in standard rolls of 60 or 75 µm thickness, 1270 mm width, and 1000 m length.

Custom-made rolls (up to 2800 mm in width) can be produced under prior commercial agreement.

POLYVANTIS

# ACRYLITE®
Film

| Technical data | | | |
|---|---|---|---|
| **Properties** | **Test method** | **Unit** | **Value** |
| **Optical** | | | |
| Luminous transmittance (D65/10°) | DIN EN ISO 11664 | % | 92 |
| UV transmittance (280 – 380 nm) | DIN EN 410 | % | < 1 |
| Refractive Index | DIN EN ISO 489 | % | 1.49 |
| Haze | ASTM D1003 | % | 2.6 |
| **Mechanical** | | | |
| Tensile yield stress ($\sigma_y$) | DIN EN ISO 527-3 | MPa | 56 |
| Yield strain ($\varepsilon_y$) | DIN EN ISO 527-3 | % | 6.5 |
| Nominal tensile strain at break ($\varepsilon_{tB}$) | DIN EN ISO 527-3 | % | 40 |
| **Thermal** | | | |
| Glass transition temperature Tg (DSC) | DIN EN ISO 11357 | °C | 107 |
| **Miscellaneous** | | | |
| Accelerated weathering resistance | DIN EN ISO 4892-2, method A, cycle 1 | h | 8000<br>No visible changes |
| Density | DIN EN ISO 1183 | g/cm³ | 1.16 |
| Surface tension | DIN EN ISO 8296 | mN/m | 50 |


Distributed by:

PolymerFilms
A DIVISION OF POLYMERSHAPES

www.polymershapes.com

Film East: Tyngsboro, MA | (978) 926-0021

Film Central: Naperville, IL | (331) 204-0272

Film West: Fresno, CA | (559) 383-3456

Film Canada: Dorval, QC | (514) 442-1048

Film Mexico: Apodaca, MX | +52-81-8369-4688



Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates. Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

This information and all further technical advice is based on our present knowledge and experience. Such information or advice, whether given at Buyer's request or not, implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.