

Technical Information

Overview

- DIAMONDclear 1-piece covers are a 250µm high-quality 1-piece self-adhesive laminate that is designed to protect and prolong the life of a paperback books especially in the library lending environment in schools/colleges. Designed for use by hand or on the Autolam II Pro Machine (Pat No: 2857215) . APET with high initial adhesion

Handling and Application

- Always store in a flat dry area
- Can be cut by Scissors, Balde or machine
- Keep away from direct sunlight
- Protection for Books, Maps, Drawings, Brochures, etc.
- As it is not feasible to evaluate every possible printing and application combination, we recommend that customers perform their own testing to confirm the material's suitability for the intended end use
- high initial tack adhesive
- Antibacterial activity evaluated in accordance with ISO 22196 (modified) for plastic surfaces
- Silicone-coated paper liner with grid pattern for easy cutting

Advantages

- Adhesive is neutral Ph of 7 and will not turn yellow over time.
- Made from 250-micron heavy-duty PET, offering robust protection against wear and tear.
- No bubbles or creases.
- Simple to use and fitted manually with sharp scissors in less than a minute

Sizes

- Diamondclear 1 is available in several sizes from a height of 187mm to 305mm and can also be manufactured in bespoke sizes with a minimum order quantity.
- As it is not feasible to evaluate every possible printing and application combination, we recommend that customers perform their own testing to confirm the material's suitability for the intended end use. Please be advised that, given the diverse applications of this material and its use with various films, APET sheets, or other substrates, dimensional variations may occur due to physical factors, including temperature changes during processing and/or application. Accordingly, all technical specifications are provided for reference purposes only and shall not constitute a warranty or guarantee.

Technical Data

Properties	Unit	Test Method	Typical Value
Thickness	µm	MB/MW/03	250 ± 4%
Density Film	g/m ³	MB/MW/36	1.34
Unit Weight	g/m ²	MB/MW/04	335.0 ± 4%
Yield	m ² /kg	MB/MW/37	3.0 ± 4%
Tensile Strength	N/mm ²	MB/MW/06 A	25.0
Coefficient of friction dynamic APET/APET	-	MB/MW/08	max 0.35
Oxygen transmission (1)	cm ³ /m ² 24h	MB/MW/26	15.0
Water vapour transmission (2)	g/m ² 24h	MB/MW/27	11.0

Adhesive

Type of Adhesive	An acrylic emulsion pressure sensitive adhesive
Peel Adhesion (24hr):	>8N

Release Liner - GLASSINE PAPER SILICONE COATED ONE SIDE

Property	Unit	Method	Target	Min	Max
Grammage	g/m ²	ISO 536	57	52	62
Thickness	µm	ISO 534	50	43	57
Moisture	%	ISO 287	4,5	3,0	6,0
Tensile Strength MD	kN/m	ISO 1924	-	4,4	-
Tensile Strength CD	kN/m	ISO 1924	-	1,4	-
Release Force	N/25mm	FTM10 TESA 50110	0,12	0,04	0,25

The technical data sheet has been prepared in good faith. The purchaser should independently test the suitability of the product for a particular application.



- Product does not include any dangerous substances by REACH or CLP. It is to be considered that plastic film left of the ground of working areas, are slippery. During converting of film rolls electrostatic discharges can be generated.

We declare that, as to our knowledge, our product (DIAMONDCLEAR1) does not contain any traceable parts of the components that are on the Prop 65 list (of 23rd of November 2018) and should therefore be compliant with the Prop 65 requirements. Please contact us if you require any further information.

Information published regarding our products is based on E-Lam's practical experience and technical knowledge. Buyers are advised to independently verify the suitability of each material for their specific application prior to use. The purchaser assumes all risks related to use, processing, and application of the material. Our liability is limited to the value of the purchased goods and excludes any indirect or incidental damages. All information provided is descriptive only and shall not be construed as legally binding guarantees. Specifications may change without notice; errors and omissions excepted.

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