

PRODUCT CLASS

Thermoplastic multi-layer product in PVC, printed with water-base inks, to be used for furniture (vertical surfaces) and flooring (LVT).

DESCRIPTION

The product consists of a thin film printed coupled on top to a transparent vinyl layer (wear layer) subsequently embossed and lacquered. PVC (polyvinyl chloride) combined with pulp, stabilizers, inert fillers, colored pigments and flame retardants improves its physical characteristics (heat resistance, strength and flexibility) and the aesthetic characteristics (color and light resistance). The high coupling resistance is guaranteed by a special working process to avoid alterations of the physical characteristics of the layers. It is a material with good mechanical properties and resistance to wear abrasion, aging, chemical agents and the attack of fungi and bacteria. It is water repellent and it is particularly resistant to fire, with high ignition temperatures and low flame spread.

PPLF* - The same than PPLF with a black PVC layer (1000 micron) added to guarantee a higher stability.

ADVANTAGES

- Wide range of decors: reproductions of woodgrains, fancy designs, stones, etc.;
- Absence of formaldehyde emissions from the product as it is;
- Good thermal / acoustic insulation;
- Total impermeability to water;
- **Use of DOTP as a plasticizer;**
- Use of water based inks for printing;
- Extreme flexibility and possibility of back priming;
- Good resistance to acids;
- Easy to clean.

APPLICATIONS

It is typically used for the production of vinyl floors (LVT). PVC floors are widely used in public buildings such as hospitals, schools, offices and department stores. It is also widely used in private houses.

AVAILABLE SIZES

- Rolls with a maximum diameter of 800 mm or sheets;
- Available sizes 1300 mm, 1000 mm, 650 mm.

The availability of other sizes is possible subject to technical verification.

TECHNICAL CHARACTERISTICS

The technical characteristics are summarized in the table on the following page. They refer to the semi-finished product, which needs finishing by the customer. Therefore all the values indicated in the table refer to the product supplied by Neodecortech and not to what the customer will get after its finishing.

PACKAGING AND STORAGE

- It is recommended a storage in its original packaging at a temperature below 30° C.
- Do not expose to direct sunlight and moisture.
- After transport and storage at low temperatures, a period of acclimatization of the material of about 1 hour per cm of roll diameter is required.
- To avoid electrostatic discharges, the material must be processed in a room with a temperature between 20° and 23° and a humidity between 50% and 60%.

NOTES

The information contained in this document is based on our current knowledge and experience. However, they cannot be considered exhaustive, but merely indicative. It is suggested to first test the product on your plant. Neodecortech S.p.A. cannot be held responsible for any eventual damage deriving from the use of the above mentioned product. For further information, the safety data sheets for the individual Neodecortech S.p.A. products are also available.

*We use only DOTP (Dioctyl terephthalate) as PVC plasticizer.

TECHNICAL DATA

Polymeric Printed Laminated Film

TECHNICAL PARAMETERS ⁽¹⁾					
PPLF Multi-layer for LVT Flooring				PPLF - AC3	PPLF - AC4
PROPERTIES		Test method	Unit/class/ level		
1	Structure: - Surface coating: - Wear layer: - Printed film:	-	-	Coating Transparent film Printed PVC*	Coating Transparent film Printed PVC*
2	Thickness ⁽²⁾:	-	mm	0.370 ±10%	0.620 ±10%
3	Wear resistance:	Acc. to: IP method A, EN 13329, Annex E	cycles	≥ 2000	≥ 4000
4	Micro-scratches resistance:	Acc. to: EN 16094	class	≤ MSR-A2 ≤ MSR-B2	≤ MSR-A2 ≤ MSR-B2
5	Resistance to chair with wheels:	Acc. to: EN 425	after 25000 cycles	No delamination slight change	No delamination slight change
6	Light fastness:	Acc. to: EN 105:B02	level	≥ 6	≥ 6
7a	Slip resistance (dry):	Acc. to: EN 13893	DS class	Friction coefficient ≥ 0.30	Friction coefficient ≥ 0.30
7b	Slip resistance⁽³⁾ (wet):	Acc. to: EN 51130	class	R 9	R 9
8	Reaction to fire (and fumes production):	Acc. to: EN 13501-1 EN ISO 9239-1 EN ISO 11925-2	class	Bfl - S1	Bfl - S1
9	Resistance to stains:	Acc. to: EN 438-2 (group 1 - only 10 minutes)	degree	Group 1 and 2: degree 5 Group 3: degree 4	Group 1 and 2: degree 5 Group 3: degree 4
10	Emissions in external environments:	-	class	A+	A+

* The information in the table above, relates specifically to the the PVC material, but the same type of product can be made with different polymeric materials (e.g. PP or PET).

⁽¹⁾ Data shown in the table are purely indicative, as they are subject to variations according to the process and finishes used. This sheet cancels and replaces the previous releases.

⁽²⁾ Assuming PPF 0,70 mm

⁽³⁾ Friction coefficient on wet surface (DIN 51130): depending of the embossing structure