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MEL

BP, BP-HG, BP-HR, BP ANTISTATIC, BP ANTI BACTERICAL, HP

PRODUCT CLASS

Decorative melamine papers (for low and high pressure).

DESCRIPTION

MEL products are decorative papers impregnated with melamine or melamine-ureic resins, dedicated to the furniture industry. The range includes products for chipboards producer or MDF (version BP, BR-HR, BP-HG) or for the production of laminates HPL and CPL (version HP).

- MEL BP melamine paper for low pressure
- MEL BP-HG high gloss melamine paper for low pressure
- MEL BP-HR high resistance melamine paper for low pressure
- MEL BP ANTISTATIC melamine paper for low pressure with antistatic properties
- MEL BP ANTIBACTERIAL melamine paper with anti-bacterical properties
- MEL HP melamine paper for high pressure

Generally the use of MEL papers gives coated surfaces special characteristics of resistance against abrasion, scratch and chemical agents. The types MEL BP-HG allows to get a 100 gloss finishing about (specular brightness) through a press equipped with a specific plate. The version MEL BP-HR gives the coated surfaces a high resistance against abrasion, without using overlay and with a low gramage balancing paper.

ADVANTAGES

- Wide range of decors (reproduction of wood grain, fancy, plain colours etc);
- E1 class finishings at low emission of formaldehyde are possible;
- High superficial scratch resistance;
- High superficial abrasion resistance, particularly MEL BP-HR;
- High resistance against cold liquids;
- High resistance against water and steam.

APPLICATIONS

MEL BP, MEL BP-HG, MEL BP-HR (low pressure)

- Temperature of the press oil: $190^{\circ} \div 200^{\circ}\text{C}$ - Running pressure: $20 \div 70 \text{ kg/cm}^2$ - Pressing time: $15'' \div 45''$ - Closing-time: max 2''

MEL HP (high pressure)

Conditions vary according to the plant.

The suggested conditions are purely indicative and must be adjusted according to the plant, the type of the chipboard and the type of the paper (gramage, dark or light décor). The use of our melamine papers for the production of fire-proof and water-proof chipboards are special applications and therefore tests before industrial production are recommended.

AVAILABLE SIZES

The product can be supplied in sheets or on rolls:

- Initial gramage: from 60 g/m²;
- Standard widths: 1250 ÷ 2500 mm;
- Sheet length: 2460 ÷ 5620 mm.

TECHNICAL CHARACTERISTICS

Technical characteristics of MEL papers are summarized in the table (see page next page).

PACKAGING AND STORAGE

All MEL papers are available on rolls and in sheets, protected by shock-proof packaging.

Sheets are packed on pallets with covers or on wooden pallets. The rolls are available with vertical and horizontal packaging on pallet. MEL BP and MEL HP shelf life is of six months, if kept in the original packaging and at correct environmental conditions (relative humidity 55-60% and temperature 10-25°C). MEL BP-HG, MEL BP-HR papers and in general the metallized and the special variations of MEL papers preserve their characteristics unaltered for three months at proper environmental conditions (relative humidity 55-60% and temperature of 10-25 °C).

NOTES

The information contained in this document is based on our current knowledge and experiences. However it cannot be considered as exhaustive, but purely indicative. We suggest to test the product in advance in your own plant. Neodecortech S.p.A. can not be considered as responsible for any eventual damage deriving from the use of the above mentioned product. For further information, the safety sheets concerning every product of Neodecortech S.p.A. are available.



BP, BP-HG, BP-HR, BP ANTISTATIC, BP ANTI BACTERICAL, HP

TECHNICAL DATA

Decorative melamine papers (for low and high pressure).

| T | ECHNICAL PARAMETERS (1) | | | | | | | | |
|------------|----------------------------|---|----------------------------------|------------------------------------|---|--|--|--|----------------------------------|
| | | | | Melamine paper for low pressure | High gloss melamine paper for low pressure | High resistance melamine paper for low pressure | Melamine paper for low pressure with antistatic properties | Melamine papers with anti-bacterical properties | Melamine paper for high pressure |
| PROPERTIES | | Test method | Measure unit/ class/ level | MEL BP | MEL BP HG | MEL BP HR | MEL BP ANTI- STATIC | MEL BP ANTI BACTE- RICAL | MEL HP |
| 1 | Initial grammage | Acc. to DIN EN ISO 536 | g/m² | ≥ 60 | ≥ 60 | ≥ 60 | ≥ 60 | ≥ 60 | ≥ 60 |
| 2 | Scratch resistance | Acc. to EN 438-2 punto 25.6 | N | ≥ 2.0 | ≥ 2.0 | ≥ 2.0 | ≥ 2.0 | ≥ 2.0 | ≥ 2.0 |
| 3 | Stain resistance | Acc. to UNI EN 12720 Class. secondo UNI 10944 | Class | A/B | A/B | A/B | A/B | A/B | A/B |
| 4 | Abrasion resistance | Acc. to EN 438-2 punto 10.2 Class. secondo EN 14322 | Class | 1 | 1 | 2 | 1 | 1 | 1 |
| 5 | Resistance against steam | Acc. to UNI EN 14323 punto 5.11 | Class | ≥ 4 | ≥ 4 | ≥ 4 | ≥ 4 | ≥ 4 | ≥ 4 |
| 6 | Dry heat resistance | Acc. to UNI EN 12722 | Class | 5 | 5 | 5 | 5 | 5 | 5 |
| 7 | Wet heat resistance | Acc. to UNI EN 12722 | Class | 5 | 5 | 5 | 5 | 5 | 5 |
| 8 | Tendency to retain dirty | Acc. to UNI 9300 | Class | 5 | 5 | 5 | 5 | 5 | 5 |
| 9 | Light resistance | Acc. to EN ISO 4892-2 | Level (blue scale) | ≥ 6 | ≥ 6 | ≥ 6 | ≥ 6 | ≥ 6 | ≥ 6 |
| 10 | Formaldehyde emission | Acc. to UNI EN 717/2 | mg/m²h | ≤ 0,3 | ≤ 0,3 | ≤ 0,3 | ≤ 0,3 | ≤ 0,3 | ≤ 0,3 |
| 11 | Anti-bacterical properties | Acc. to JIS Z 2801:2000 / ISO 22196:2007 | Log Reduction (%) | - | - | - | - | 2.7-4.6 (99.8- 99.9) | - |
| 12 | Antistatic proprieties | Acc. to EN 1815 | in conformity / not in conf. | - | - | - | In Conf. | - | - |

⁽¹⁾ In the table are shown only the properties of MEL/BP on a chipboard and not those of MEL HP, because these latter are strictly connected to the lamination treatment characteristics. This version cancels and replaces the previous ones.
(2) The data mentioned in the above table have to be considered as purely indicative as they depend on the press conditions and on the used chipboard.

