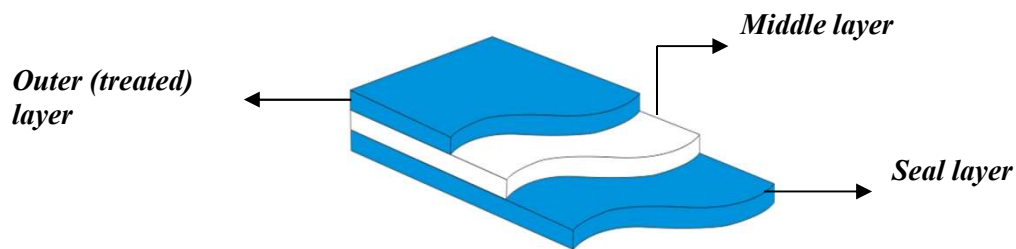


## TECHNICAL SPECIFICATION

# LD13

### CONSTRUCTION



### FEATURES AND APPLICATIONS

- Conventional lamination film.
- Suitable for PET, OPP, PVC, Metallized PET, Metallized OPP, Al, OPA or Paper lamination.
- Good sealing strength.
- Easy tear in transverse direction (TD).

### CERTIFICATION

Films comply with the requirements "COMMISSION REGULATION (EU) No 10/2011 on plastic materials and articles intended to come into contact with food". All films are produced in ISO 9001, ISO14001 certified facilities and have been approved by the British Retail Consortium (BRC).

### PRODUCT and FOOD SAFETY

For more information please request Material Safety Data Sheet (MSDS) and Food Contact Declaration.

### SHELF LIFE and STORAGE

The shelf life of the product is 6 months after production if it is stored in dry conditions, away from exposure to direct sunlight and at normal room conditions.

| PROPERTIES                 |                          |          |        |       |             |             |
|----------------------------|--------------------------|----------|--------|-------|-------------|-------------|
| Parameter                  | Unit                     |          | Value  |       | Test Method |             |
| Thickness                  | micron                   |          | 35     | 40    | BAREKS TEST |             |
|                            | gauge                    |          | 140    | 160   |             |             |
| Density                    | g/cm <sup>3</sup>        |          | 0,923  | 0,923 | BAREKS TEST |             |
| Yield                      | m <sup>2</sup> /kg       |          | 30,95  | 27,09 | BAREKS TEST |             |
| CoF                        | ln / ln                  |          | ≤ 0,30 |       | ASTM D1894  |             |
| Tensile Strength           | MD                       | N /25 mm | ± 6    | 21    | 25          | ASTM D882   |
|                            | TD                       |          | ± 6    | 10    | 12          |             |
| Elongation at Break        | MD                       | mm       | ± 100  | 100   | 100         | ASTM D882   |
|                            | TD                       |          | ± 100  | 240   | 250         |             |
| Seal Strength / Elongation | 3 bar<br>130°C<br>0,8 sn | N /25 mm | ± 3    | 15    | 17          | BAREKS TEST |
|                            |                          | mm       | ± 50   | 50    | 50          |             |
| Gloss                      | ≥%                       |          | 80     | 80    | ASTM D2457  |             |
| Haze                       | ≤%                       |          | 16     | 16    | ASTM D1003  |             |
| Clarity                    | ≥%                       |          | 90     | 90    |             |             |
| Transmittance              | ≥%                       |          | 85     | 85    |             |             |

The above information is the result of laboratory tests, which are applied on samples from standard production. Since the varying conditions under which our products used are beyond our control, all of the above results are without guarantee and warranty. Users are advised to conduct their own testing of our products to determine suitability for use alone or in combination with other products.

| PROPERTIES                 |                          |          |        |       |       |       |             |             |
|----------------------------|--------------------------|----------|--------|-------|-------|-------|-------------|-------------|
| Parameter                  | Unit                     |          | Value  |       |       |       | Test Method |             |
| Thickness                  | micron                   |          | 50     | 55    | 60    | 70    | BAREKS TEST |             |
|                            | gauge                    |          | 200    | 220   | 240   | 280   |             |             |
| Density                    | g/cm <sup>3</sup>        |          | 0,923  | 0,923 | 0,923 | 0,923 | BAREKS TEST |             |
| Yield                      | m <sup>2</sup> /kg       |          | 21,67  | 19,70 | 18,06 | 15,48 | BAREKS TEST |             |
| CoF                        | ln / ln                  |          | ≤ 0,30 |       |       |       | ASTM D1894  |             |
| Tensile Strength           | MD                       | N /25 mm | ± 6    | 27,0  | 28,5  | 30,5  | 32,5        | ASTM D882   |
|                            | TD                       |          | ± 6    | 13,0  | 15,0  | 21,0  | 25,2        |             |
| Elongation at Break        | MD                       | mm       | ± 100  | 100   | 110   | 120   | 135         | ASTM D882   |
|                            | TD                       |          | ± 100  | 270   | 280   | 290   | 310         |             |
| Seal Strength / Elongation | 3 bar<br>130°C<br>0,8 sn | N /25 mm | ± 3    | 18,5  | 20,3  | 21,6  | 24,5        | BAREKS TEST |
|                            |                          | mm       | ± 50   | 55    | 60    | 60    | 90          |             |
| Gloss                      | ≥%                       |          | 80     | 80    | 80    | 80    | ASTM D2457  |             |
| Haze                       | ≤%                       |          | 16     | 16    | 16    | 16    | ASTM D1003  |             |
| Clarity                    | ≥%                       |          | 90     | 90    | 90    | 90    |             |             |
| Transmittance              | ≥%                       |          | 85     | 85    | 85    | 85    |             |             |

The above information is the result of laboratory tests, which are applied on samples from standard production. Since the varying conditions under which our products used are beyond our control, all of the above results are without guarantee and warranty. Users are advised to conduct their own testing of our products to determine suitability for use alone or in combination with other products.