

# MAPLEX AT A GLANCE

| GRADE              | DESCRIPTION   | APPLICATION   |
|--------------------|---|---|
| <b>MAPLEX P</b>    | Highest density grade with dimensional strength and superior mechanical properties.                     | Paneling, Furniture, Honeycomb, Displays, Signage                 |
| <b>MAPLEX MD</b>   | Medium density board with superior mechanical properties and dimensional strength.                      | Paneling, Retail Accessories, Clothing Hangers                    |
| <b>MAPLEX MDC</b>  | Low density highly formable cellulose/cotton blend for applications requiring flexibility and strength. | Footwear Components, Bins & Recycling Containers                  |
| <b>MAPLEX MDCC</b> | Low density calendered cellulose/cotton blend for special applications in security printing industry.   | Security Printing Components & Punching Operations                |
| <b>MAPLEX C</b>    | Low density grade with superior mechanical properties, dimensional strength and smooth sheet surface.   | Paneling, Retail Accessories, Clothing Hangers                    |
| <b>MAPLEX FORM</b> | Low density formable pressboard.  | Packaging, Bins & Recycling Containers, Clothing Hangers, Sealing |
| <b>MAPLEX PC</b>   | Highest density calendered grade board.   | Disposable Cutting Pads   |

| GRADE                                |            |                   | MAPLEX P       | MAPLEX MD   | MAPLEX MDC | MAPLEX MDCC | MAPLEX C | MAPLEX FORM | MAPLEX PC |
|--------------------------------------|------------|-------------------|----------------|-------------|------------|-------------|----------|-------------|-----------|
| PROPERTIES                           | STANDARD   | UOM               | TYPICAL VALUES |             |            |             |          |             |           |
| THICKNESS RANGE                      |            | mm                | > 1.6 – 3.0    | > 1.0 – 3.0 | 3          | 1.55        | 1.3-2.3  | 1 - 2.3     | 3.1       |
| APPARENT DENSITY                     | ISO 534    | g/cm <sup>3</sup> | 1.2            | 1           | 1.0        | 1.15        | 1.05     | 0.88        | 1.2       |
| MOISTURE                             | ISO 287    | %                 | ≤6             | ≤6          | ≤6         | ≤6          | 4.9      | 4.9         | ≤6        |
| TENSILE STRENGTH MD                  | ISO 1924-2 | MPa               | 124            | 90          | 72         | 82.5        | 82.5     | 69          | 110       |
| TENSILE STRENGTH CMD                 | ISO 1924-2 | MPa               | 92             | 70          | 56         | 63.4        | 48.2     | 41          | 85        |
| TENSILE ELONGATION MD                | ISO 1924-2 | %                 | 3.9            | 3.4         | 4.2        | 4.13        | 10       | 10          | 2.5       |
| TENSILE ELONGATION CMD               | ISO 1924-2 | %                 | 4.6            | 3.8         | 4.4        | 4.43        | 13       | 13          | 3.5       |
| MODULUS OF ELASTICITY IN TENSION MD  | ISO 1924-2 | GPa               | 13             | 10          | 7.74       | 7.16        | 2.4      | 2.3         | 13        |
| MODULUS OF ELASTICITY IN TENSION CMD | ISO 1924-2 | GPa               | 10             | 8           | 6.29       | 6.2         | 1.4      | 1.3         | 10        |
| MODULUS OF ELASTICITY IN BENDING MD  | ISO 1924-2 | GPa               | -              | -           | -          | -           | -        | -           | 4         |
| MODULUS OF ELASTICITY IN BENDING CMD | ISO 1924-2 | GPa               | -              | -           | -          | -           | -        | -           | 3         |
| SHORE D HARDNESS                     | ISO 868    | -                 | -              | -           | -          | -           | -        | -           | 84        |
| NOTCHED IMPACT STRENGTH              | ISO 179    | kJ/m <sup>2</sup> | -              | -           | -          | -           | -        | -           | 13        |

The technical data reported here are typical results for routine tests made in the Weidmann Laboratory. If not specified, the values are typical for 3mm material. Additional specific data is available on request. MD - Machine Direction / CMD - Cross Machine Direction. For specific Maplex grade thickness range please refer to the grade specific Technical Data Sheet.

For more information please contact Customer Services.

This matrix is provided for reference purposes only to consider options for your application. While we recommend certain grades which successfully performed in specific applications, our Engineering Team will be happy to work closely with you to review your application requirements and select the grade, prototype if necessary and develop a solution which work best for you.

Some grades can be used and interchanged across multiple applications successfully. Our fiber alignment, sheet forming and fabrication techniques vary for different grades which provides us with opportunity to find the Maplex grade most suitable for your project.



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