

## Mowital® Thin Film - Our specialized interlayer

Kuraray is a world leader in speciality polymers. The wide-ranging properties of our PVBs make them suitable for top class applications in many areas.

Mowital® is the trademark for a broad range of different polyvinyl butyrals (PVB) marketed by Kuraray. We constantly strive to optimize our product properties and develop innovative new applications.

Our range of products includes Mowital® Thin Film, a novel PVB film - based on Mowital® resin - with excellent bonding power for use as a thermoplastic interlayer.

Mowital® Thin Film can be used to laminate different materials, including multi-layer composites comprising a variety of substrates.

It is also suitable for use as a matrix material for thermoplastic prepregs. These are laminated under pressure at elevated temperatures (5 bar, 140-160 °C), to produce compact composites with excellent properties.

### Special features

- Adhesive laminate films supplied on rolls
- High bonding power to glass, metals, ceramics, polymeric fabrics and polyurethane foams
- Transparent
- Thermoplastic matrix material
- Non-toxic
- Nearly unlimited shelf-life
- Multi-layer structures made of different substrates

### Main application areas

- Multi-layer composites/laminates
- Thermoplastic prepregs
- Glass bonding, e.g. for design applications
- Fiberglass laminates
- Laminating with metal film/sheet, e.g. steel or copper
- Bonding of various metals
- Ceramic laminates
- Bonded honeycomb sandwich structures made from different substrates
- Lightweight constructions

### Mowital® Thin Film Grades

Grade	Width of roll* [mm]	Length of roll* [m]	Net thickness** [µm]	Net thickness** [mil]
Mowital® Thin Film 050	1.000	1.500	50 ± 10%	1,97 ± 10%
Mowital® Thin Film 075	1.000	1.500	75 ± 10%	2,95 ± 10%
Mowital® Thin Film 100	1.000	1.500	100 ± 10%	3,94 ± 10%
Mowital® Thin Film 250	1.000	300	250 ± 10%	9,84 ± 10%

\* Standard width/length, other widths/lengths upon request

\*\* Standard deviation calculated from IR-online measurements

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