

**TECHNICAL FILE LIGNA**

application: Ligna  
P9600/9610

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version: v1



|                                 |                       | EN 15534-1                                  | based on | specific property | unit                      | value                            |             |
|---------------------------------|-----------------------|---|----------|-------------------|---------------------------|----------------------------------|-------------|
| MATERIAL CHARACTERISTICS        | physical properties   | density                                     | § 6.2    | ISO 1183-1/A      |                           | kg/dm <sup>3</sup>               | 1.30 ± 0.05 |
|                                 | mechanical properties | flexural properties                         | § 7.3.1  | ISO 178           | flexural modulus          | MPa                              | 3300 ± 10%  |
|                                 |                       | flexural properties                         |          |                   | bending strength          | MPa                              | > 35        |
|                                 | durability            | swelling and water absorption (28 days)     | § 8.3.1  | EN 317            | mass increase             | %                                | < 4         |
|                                 | thermal properties    | linear thermal expansion (-20 °C ... +60°C) | § 9.2    | ISO 11359-2       | length direction          | 10 <sup>-6</sup> K <sup>-1</sup> | 40 - 70     |
| PRODUCT RELATED CHARACTERISTICS | durability            | natural weathering (1 year Bandol)          | § 8.2    | ISO 877-2         | discoloration             | dE                               | < 10        |
|                                 |                       | boiling test                                | § 8.3.3  | ISO 1087-1        | mass increase             | %                                | < 2         |
|                                 | thermal properties    | heat reversion                              | § 9.3    | EN 479            |                           | %                                | < 0.3       |
|                                 |                       | heat build-up                               | § 9.4    | ASTM D4803        |                           | °C                               | 6 - 12      |
|                                 |                       | single flame source                         | § 9.6.1  | ISO 11925-2       | classification EN 13501-1 | class                            | E           |

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