

Test Standards

EN 15534-1:2014 Section 6.1, 6.4.2, 6.5, 6.6, 7.1.2.1, 7.4.1, 7.5, 8.3.3, 9.2, 9.3,
Annex A, CEN/TS 15676:2007, ISO 11359-2:1999, EN 479:2018

The samples were tested according to the above standards, and the results are shown here.

| Test Items | Standard | Result | Remarks | Notes |
|--|---|--------|---|--|
| Appearance | EN 15534-4:2014 Sect. 4.3 EN 15534-1:2014 Sect. 6.1 | Pass | Test specimens were no crack, no blister and other visible defects. | - |
| Slipperiness (Pendulum test) | EN 15534-4:2014 Sect. 4.4 EN 15534-1:2014 Sect. 6.4.2 CEN/TS 15676:2007 | Pass | Longitudinal direction: Mean: 52 Min.: 49 Horizontal direction: Mean: 70 Min.: 68 | Test requirements: Pendulum value ≥ 36 |
| Linear mass | EN 15534-1:2014 Sect. 6.5 | Pass | Mean.: 2717.6 g/m Max.: 2725.6 g/m Min.: 2702.1 g/m | No declared value |
| Dimensions | EN 15534-4:2014 Sect. 4.4 EN 15534-1:2014 Sect. 6.6 | Pass | Mean Thickness: 24.72mm Mean Width: 147.54mm Mean Length: 1001.51mm Max. Deviation from straightness: 0.09mm Max. Cupping: 2.65mm | Declared value: Thickness 25mm Width 148mm |
| Falling mass impact resistance | EN 15534-4:2014 Sect. 4.5.1 EN 15534-1:2014 Sect. 7.1.2.1 | Pass | Hollow profile Max. Crack length (mm): No crack occur Max. Residual Indentation (mm): 0.14 | Test requirements: None of 10 test specimens shall show a failure with a crack length ≥ 10 mm or a depth of residual indentation ≥ 0.5 mm |
| Creep behaviour | EN 15534-4:2014 Sect. 4.5.3 EN 15534-1:2014 Sect. 7.4.1 | Pass | Span: 300mm Mean ΔS : 1.80mm Max. ΔS : 1.83mm Mean ΔS_r : 1.08mm | Known span in use Mean $\Delta S \leq 10$ mm Max. $\Delta S \leq 13$ mm Mean $\Delta S_r \leq 5$ mm |
| Resistance to indentation | EN 15534-4:2014 Sect. 4.5.7 EN 15534-1:2014 Sect. 7.5 | Pass | Brinell hardness: 63 MPa Rate of elastic recovery: 72% | - |
| Boiling Test | EN 15534-4:2014 Sect. 4.5.5 EN 15534-1:2014 Sect. 8.3.3 | Pass | Water absorption in weight: Mean: 3.00% Max.: 3.06% | Water absorption in weight test requirements: Mean $\leq 7\%$ Max. $\leq 9\%$ |
| Linear thermal expansion coefficient (-20°C to 80°C) | EN 15534-4:2014 Sect. 4.5.6 EN 15534-1:2014 Sect. 9.2 ISO 11359-2:1999 | Pass | Mean: $43.7 \times 10^{-6} K^{-1}$ | Test requirements: $\leq 50 \times 10^{-6} K^{-1}$ |
| Heat reversion | EN 15534-4:2014 Sect. 4.5.7 EN 15534-1:2014 Sect. 9.3 EN 479:2018 | Pass | Test Temperature: 100°C Mean: 0.05% | - |
| Flexural properties | EN 15534-4:2014 Sect. 4.5.2 EN 15534-1:2014 Annex A | Pass | Bending Strength: 24.5 MPa Modulus of elasticity: 2922 MPa Maximum load: Mean: 4966N Min.: 4847N Deflection at 500N: Mean: 1.1mm Max.: 1.3mm | Test requirements: Flexural properties -F' Max.: Mean ≥ 3300 N Min. ≥ 3000 N -Deflection under a load of 500 N Mean ≤ 2.0 mm Max. ≤ 2.5 mm |

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