

Gutmann ExTraClear PVB (1.14mm) Technical Data

| Characteristics | Standard | Test results | Test method |
|---------------------|--|-------------------|-------------------|
| Colour | Primitive colour is clear, colourless or slightly yellow | ExTra Clear | Visual Inspection |
| Appearance | Smooth, consistent surface, (no bubbles, number of defects ≤ 2 , breakage ≤ 2) /50m | Pass | Visual Inspection |
| Length | Minimum of the length indicated | Pass | On-line control |
| Width | Minimum of the width indicated | $\pm (0 - 20)$ mm | On-line control |
| Thickness Deviation | ± 0.03 mm | 1.13 - 1.16 mm | Micrometre |
| Haze | Clear < 0.5 % | 0.26% | ASTM D1003 |
| Light Transmittance | Clear ≥ 88.0 | 90.35 | ASTM D1003 |
| Roughness | RZ 15 - 45 | 30.4 | Stylus |
| Moisture Content | 0.3 - 0.45 % | 0.34% | ASTM D6869 |
| Yellow Index | Yellow Index ≤ 4 | 2.15 | ASTM E 313 |
| Shrinkage | $\leq 2\%$ | 0.50% | At 65°C / 15' |
| Tensile Strength | ≥ 22 Mpa | 26 | ASTM D412 |
| Pummel | ≥ 8 | 9 | ASTM C1908-21 |
| Strain | $\geq 200\%$ | 276.57% | ASTM D624 |
| Test Results | | | |
| | | Pass | |

* It should be noted that all tests are performed in accordance with ASTM standards. *