SAMPO MATERIAL DATA

# Sampo BMX 90A

## Technical properties

| Property | Unit | Matrix value |
|---|---|---|
| Density | kg/m³ | **1190** |
| Shore A hardness | Shore A | **90 ± 3** |
| Shore D hardness / 15 s | Shore D | **44 ± 3** |
| Tensile strength | MPa | **50** |
| Elongation at break | % | **370** |
| Stress at 100% elongation | MPa | **≥10** |
| Stress at 300% elongation | MPa | **≥ 35** |
| Tear strength | kN/m | **n.v.** |
| Abrasion volume loss | mm³ | **38** |
| Rebound resilience | % | **38** |
| Compression set / 24 h / 70 °C / 25% | % | **≤ 26** |
| Compression set / 72 h / 70 °C / 25% | % | **n.v.** |
| Maximum temperature | °C | **115** |
| Minimum temperature | °C | **-20** |
| Vicat softening temperature / 10 N / 120 °C/h | °C | **n.v.** |

≥ Minimum value · ≤ Maximum value · ± Tolerance · n.v. not reported. Values without limit symbols are characteristic values, not guaranteed limits.

Vicat test: force 10 N, heating rate 120 °C/h. Temperature values are application-dependent guidelines.

Data source: Sampo material data matrix, worksheet Datenmatrix, column J. Data as of 10 September 2026.