

Pinus sylvestris

Table 1: Physical and mechanical properties

| Source | Origin | Bulk density (kg/m ³) | | MOE (N/mm ²) | Strength II (N/mm ²) | | | Impact bending (J/cm ²) | Brinell hardness (N/mm ²) | Swelling/shrinkage (%) | | | |
|----------------------|-------------------------------|-----------------------------------|--------------------|--------------------------|----------------------------------|-------------------|-----------------|-------------------------------------|---------------------------------------|------------------------|-----------------------|-----------------------|-------------------------|
| | | u=12% | Oven-dry | | Bending | Tensile | Compression | | | Longitudinal | Radial | Tangential | Volume |
| HOLZatlas 1996 | unkown | 510 (330...890) | 490 (300...860) | 12000 (6900...20100) | 80 (41...205) | 104 (35...196) | 55 (35...94) | 4 (1.5...13) | 40 (35...95) | 0.2-0.4 ^{a)} | 3.3-4.5 ^{a)} | 7.5-8.7 ^{a)} | 11.2-12.4 ^{a)} |
| Norhagen et al. 2021 | Alapmoen (Bardufoss) | 438 (±50) | | 9950 (±2220) | 40.1 (±12.6) | | | | | | | | |
| | Andsvatnet (Bardufoss) | 414 (±21) | | 8290 (±1360) | 28.9 (±9.5) | | | | | | | | |
| | Buktamo (Bardufoss) | 426 (±21) | | 9640 (±1440) | 37.6 (±9.2) | | | | | | | | |
| | Grøttemoen (Bardufoss) | 456 (±37) | | 10900 (±1830) | 42.1 (±13.8) | | | | | | | | |
| | Håkseth (Pasvik) | 456 (±36.8) | | 10700 (±1950) | 41.7 (±13.3) | | | | | | | | |
| | Kobbfosshøgda (Pasvik) | 461 (±43) | | 11200 (±2300) | 46.1 (±15.3) | | | | | | | | |
| | Miellemoh-keguoika (Karasjøk) | 455 (±30) | | 10300 (±1210) | 42.3 (±8.8) | | | | | | | | |
| | Nallovarrimoen (Alta) | 446 (±31) | | 10600 (±1770) | 44.0 (±10.8) | | | | | | | | |
| | Russeåsen (Pasvik) | 448 (±26) | | 9990 (±1560) | 37.6 (±9.5) | | | | | | | | |
| | Skillemo (Alta) | 463 (±43) | | 10800 (±2030) | 42.7 (±13.6) | | | | | | | | |

^{a)} shrinkage