

# Typical test values

## Powerflute is:

- a premium quality virgin fibre semi-chemical fluting made of birch
- exceptionally moisture and crush resistant even over prolonged periods
- hygienic and clean. Powerflute is free of fungi, toxics and heavy metals and contains no hazardous chemicals
- fully recyclable
- Powerflute Oy is certified under the FSC Chain of Custody (license code FSC-C105155) system, the ISO 9001 quality system, the ISO 14001 environmental system and the ISO 22000 food safety management system

23°C 50% RH

Powerflute® g/m<sup>2</sup>

Property	Unit	Method	120	130	140	150	160	175	200	220
Thickness	µm	ISO 534	185	200	210	225	240	260	275	310
CMT <sub>30</sub>	N	ISO 7263	315	355	395	435	475	520	>560*	>600*
CCT <sub>30</sub>	kN/m	Scan-P42	2.6	2.9	3.2	3.5	3.7	4.1	4.7	5,2
Tensile stiffness cd	kN/m	ISO 1924	475	510	545	580	620	680	780	850
Creep-CCT <sub>10</sub>	kg/m		53	59	66	73	77	87	102	110

Common properties	Method	
Moisture	ISO 287	10%
Air resistance	ISO 5636-5	90 s
Moisture variation cd & md		< 1%-unit
Grammage variation cd & md		< 1.5%

## Reel information

Reel diameter	mm	1250	1450
Reel width	mm	800-3600	800-2850
Core diameter	mm	101,6	
Reel wrapping		Full wrapping with two layers of kraftliner, two discs on both ends, outer of PE-laminated kraftliner	

Creep is defined as the slow continuous deformation of a material subjected to constant load over time.  
CCT10 value is defined as the load the material can carry for 10 days in 20°C and 90% RH.

\* Indicative values. Due to its ultra-high stiffness it is challenging to measure CMT values correctly for Heavy Duty Powerflute.  
Please contact your local Powerflute representative if you need assistance with testing.

## TESTING METHODS

