



Northern Bleached Hardwood Kraft
Market Grade
Prime

| Pulp Specifications | | |
|--|-------------------|-------|
| Parameters | Test Method | |
| Brightness, %* | TAPPI T525 / ISO | ≥89.0 |
| Dirt, mm ² m ² * | TAPPI T213/UM 205 | ≤ 2.0 |

***Mill test measured at time of production**

| Pulp Typical Properties – 2019 Averages | | |
|---|-----------------|-------|
| Parameters | Test Method | |
| Viscosity (0.5% CED), mPas | TAPPI T230 | 19.26 |
| DCM Extractives, % | TAPPI T204 | 0.15 |
| Air Dry % | Forte | 90.0 |
| | Ref: TAPPI T412 | |

| Fiber Typical Properties - Averages | | |
|-------------------------------------|-------------|------|
| Parameters | Test Method | |
| Average Length (LWAF), mm | TAPPI T271 | ≥0.7 |
| Coarseness, mg/100m | TAPPI T271 | 9.0 |

| Wood Species |
|---|
| Predominantly Mixed Northern Hardwood Primarily Maple, Birch, Beech, and Aspen |

| Bale Typical Properties | | |
|-------------------------|--------------------------|----|
| Bale Dimensions | in | cm |
| Length | 30 | 76 |
| Width | 32 | 81 |
| Height | 17 | 43 |
| Weight (Approx.) | 580 lbs./263 kg | |
| Wrapping | Single wrapped with pulp | |
| Export Packaging | 8 bales/unit | |

| Product Stewardship | |
|--|--------------------------------|
| Elemental Chlorine Free (ECF) Bleaching | |
| Bleaching Sequence | DE _p D _p |
| FDA Compliant (21 CFR 176.17.0 and 176.180) | |
| Regulation (EC) No 1935/2004 Compliant | |
| BfR Compliant (XXXVI, XXXVI/1, XXXVI/2, XXXVI/3) | |
| Quality Certification | ISO 9001:2015 |
| Environmental Certification | ISO 14001:2015 |
| Nordic Swan Certified | |
| Forestry Certifications | FSC®, SFI®, PEFC™ |

Please note: Woodland Pulp LLC only guarantees pulp specifications. All the other values listed are pulp typical properties and not guaranteed.

| Refining | Test Method | Initial | PFI Refined | | | |
|-------------------------------|-------------|---------|-------------|------|------|------|
| Canadian Standard Freeness mL | TAPPI T227 | 596 | 508 | 442 | 369 | 290 |
| PFI Revolutions | TAPPI T248 | 0 | 400 | 1000 | 2400 | 4600 |

| Strength | | | | | | |
|---|------------|------|------|------|------|------|
| Tensile (Breaking Length), km | TAPPI T494 | 1.43 | 2.95 | 3.72 | 4.74 | 5.34 |
| Tensile Index, N.m/g | TAPPI T494 | 14.1 | 29.0 | 36.5 | 46.5 | 52.4 |
| Tear Index, (5-ply), mN.m ² /g | TAPPI T414 | 3.11 | 6.41 | 7.60 | 7.65 | 8.09 |
| Burst Index, kP a.m ² /g | TAPPI T403 | 0.45 | 1.36 | 1.85 | 2.78 | 3.28 |

| Sheet Structure & Aesthetics | | | | | | |
|--|------------|------|------|------|------|------|
| Bulk, cc/g | TAPPI T220 | 1.93 | 1.63 | 1.58 | 1.44 | 1.40 |
| Porosity (Gurley), sec/100 ml | TAPPI T460 | 1.0 | 2.4 | 3.2 | 7.1 | 12.4 |
| Light Scattering Coefficient, cm ² /g | TAPPI T519 | 616 | 408 | 387 | 343 | 325 |

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