



Quinnesec® Hi-Maple Pulp

Uniformity in every shipment.

Verso produces a high quality Northern Bleached Hardwood Kraft (NBHK) Maple pulp at its Quinnesec, Michigan mill. A large portion of this production is used by the mill in the manufacture of coated freesheet paper grades. The remaining production is sold as **Quinnesec® Hi-Maple Northern Hardwood Pulp.**

At Quinnesec, uniformity is built into every shipment. Careful control of the species mix for Quinnesec® Hi-Maple Northern Hardwood Pulp, along with the highly automated process and the mill's culture of manufacturing the product right the first time yields a pulp with remarkable consistency.

Attributes of the Quinnesec Mill:

- A US EPA Benchmark Site for developing new regulations (e.g., maximum achievable control technology - MACT)
- ISO 14001 certified and receives an annual independent audit of its environmental management system
- Earned Star status in OSHA's Voluntary Protection Program, the state's highest recognition of workplace health and safety
- CoC certification and recycled options available

Applications:

- Premium writing, text and cover
- Uncoated printing and writing papers
- Coated freesheet papers
- Technical and specialty papers
- Tissue papers

Typical Characteristics:

Physical Properties	Target	Method
Brightness (ISO), %	90.0	TAPPI T525
Dirt Count, ppm	0.1	TAPPI T213
Viscosity, cps	25.3	TAPPI T230
Moisture, % Air-Dry	97.0	TAPPI T210
Ash Content, %	0.53	TAPPI T211
Extractives (DMC), %	0.12	TAPPI T204
Species Mix	Target	
Maple	80%	
Birch	7%	
Beech	4%	
Other Mixed Hardwoods	9%	
Softwood	0%	



Typical Characteristics:

Fiber Morphology	Target	Method
Fiber Length, mm	0.61	ISO 16065-2
Coarseness, mg/m	0.070	
Population, MM fibers/gram	28.5	
Fines (Britt), %	12.3	TAPPI T261
Bale Information		
Dimensions (LxWxH)		32"x32"x16" (82x82x41 cm)
Typical Weight		580 lbs (263 kg)
Wrap Type		SBSK, one-piece
Number of Wires		0,2 or 3
Wireless Bale Type		Glued
Bales per Unit (if unitized)		6 (2 wide x 3 high)
Process Information		
Bleaching Process Type		Enhanced ECF
Bleaching Sequence		O-D-E _{o+p} -D-D
Environmental Certification		ISO 14001
Forestry Certifications		FSC®, SFI®, PEFC™

For additional information, contact your Verso representative or email marketpulp@versoco.com

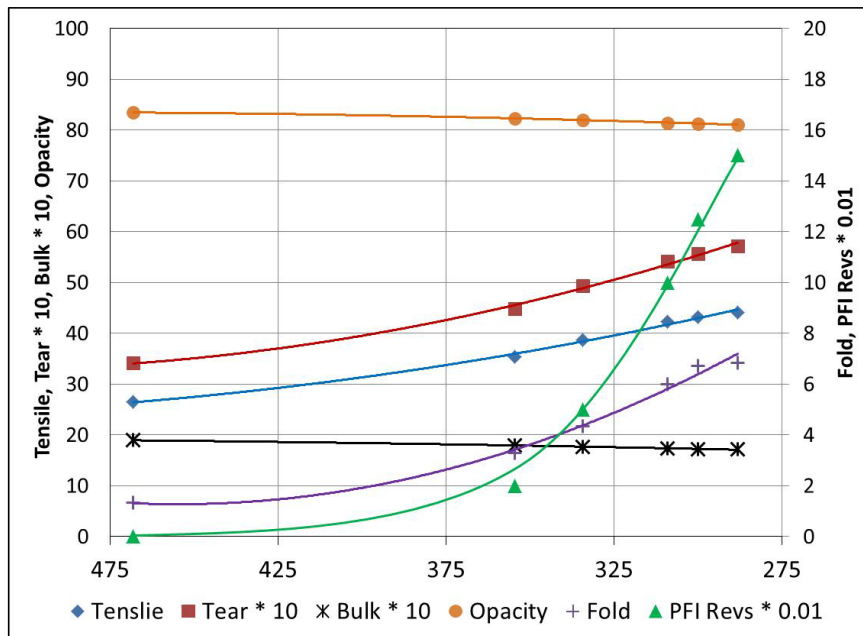


Quinnesec[®] Hi-Maple Pulp

Refining Characterization:

TAPPI T200/T220)

PFI Revolutions		0	200	500	1000	1500
CSF	ml	470	364	331	304	290
Tensile Index	N*m/g	26.6	35.0	38.6	42.6	44.2
Tear Index	mN*m ² /g	3.4	4.6	5.1	5.6	5.7
Breaking Length	km	2.7	3.6	3.9	4.3	4.5
Fold Endurance Index		1.3	3.2	4.3	5.9	6.8
Bulk	cm ³ /g	1.9	1.8	1.8	1.7	1.7
Opacity	%	83.4	82.3	81.9	81.4	81.1



For additional information, contact your Verso representative or email marketpulp@versoco.com

Verso Corporation
8540 Gander Creek Drive
Miamisburg, OH 45342
800 258 8852