Glass og metall

Infinite loop?









Infinite loop?

Metall eller metall



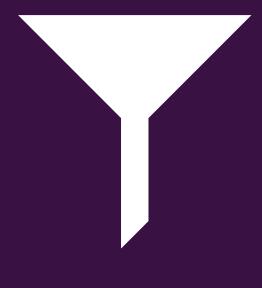
Vekt og transport vs energi i ny produksjon

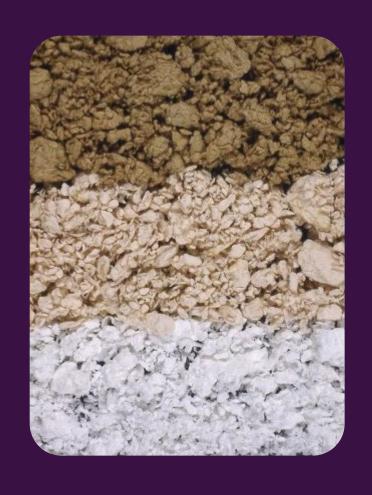
Fiber

Er det løsningen på alle våre problemer?









Gjenvinning av fiber



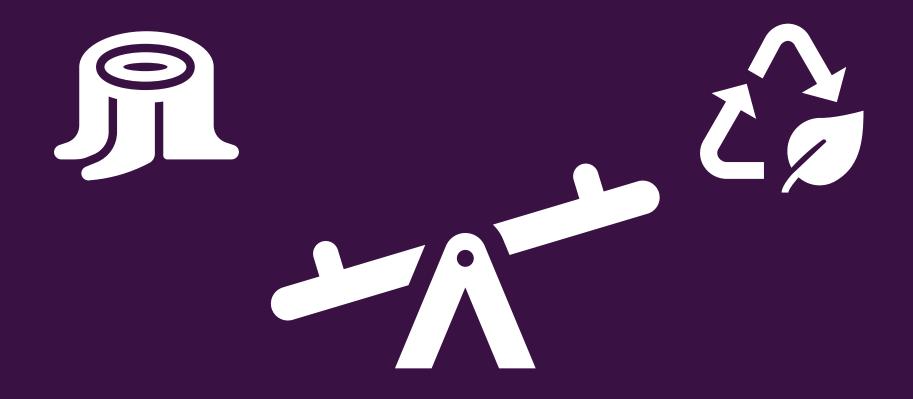
God kollega 30.06.2022 08:39

Jeg kom over denne i går: Et kjent merke har lansert solkrem på ny tube. Spanderer Emballasjeavdelingen den på meg hvis dere får emballasjen?



Et kjent merke har lansert solkrem på ny tube.





- Kan redusere behovet for (dårlig) plast
- Kan ikke gjenvinnes uendelig mange ganger
- Kan ikke brukes til mat (uten plast)
- Kan det brukes igjen

Fully compatible with standard recycling process	Conditionally compatible with standard recycling process	Not compatible with standard recycling process	Compatibility with recycling process unknown
 compatible with sorting according to standard paper grades no disturbing parts within the recycling process expected positive output quality after recycling for target product existing test results show good compatibility with standard recycling process 	 sorting not guaranteed in all cases the efficiency of the recycling process is affected compromised output quality after recycling with standard recycling process 	 major issues during sorting and/or recycling non-feasible output quality for further treatment after recycling existing test results show low compatibility with standard recycling process 	 based on current knowledge no clear guidance is possible testing is required to examine the recyclability of the packaging with standard recycling process

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Component	Sub-category	Fully compatible with standard recycling process	conditionally compatible with standard recycling process	Not compatible with standard recycling process	Compatibility with recycling process unknown	Comment	
	Clay (kaolin)	×				High ash content may	
Filler/	CaCO3	8				have a negative impact on mechanical strength	
inorganic pigments	Talc	×				depending on the relative amount in the PfR stream.	
	Titanium dioxide	⊗				Threshold needed.	
	5/B latex	8					
Binder	5/A latex	•				Depending on amount, adhesive strength, etc.	
	Starch- blobinder	(X)					
	AKD	(X)					
Sizing, wet end	ASA	•					
	Rosin	×					
	Starch	•					
Dry	СМС	×					
strength	Polyacrylamide	•					
	Guargum	×					
Wet strength	PAE		8			Recyclability depends on a number of factors, such as reliable wet-strength (WS) level, amount of WS agent, etc. Recyclability can be improved by increased pulping temperature and time, chemicals, high consistency pulping, etc. Testing is needed to evaluate the recyclability and set thresholds for acceptable levels in the PfR stream.	
	Urea/ Formaldehyde				8	Recyclability depends on a number of factors such as relative wet strength level, amount of WS agent enc. Recyclability can be improved by e.g. increased pulping temperature and time, chemicals, high consistency pulping etc. Testing is needed to evaluate the recyclability and set thresholds for acceptable levels in the PfR stream.	
	Urea/Melamine				8	Unclear whether these WS agents are still used in paper and board manufacturing. Testing needed to evaluate recyclability and set thresholds.	
	Glyoxylated polyacrylamide (GPAM)	⊗					
Sizing, surface	Starch						



Component	Sub-category	Fully compatible with standard recycling process	Conditionally compatible with standard recycling process	Not compatible with standard recycling process	Compatibility with recycling process unknown	Comment
Other	Colorants/ dye for sha	⊗				
	Colorants/ pigments	⊗				Physically recyclable but certain dyes are not approved for feed packaging applications and such dyes should be avoided.
	Polyvinyl alcohol	8				
	PAC	8				
	Retention polymers	⊗				
	SiliconIsing agents		®			Used, for example, in release papers for labels. The compatibility for recycling depends on the chemistry of siliconizing treatments. Most siliconized papers can be recycled in specialised mills, but are not compatible with the standard recycling proce Water-based silitonizing agents are an exception as they are recyclable in standarecycling mills. Testing is needed to evaluate the recyclability.

Table 4. Compact design table for different materials and components



Materialgjenvinningsgrad

Norsirks resultat i 2022	72 %	71%	58%	37%	71%	89%	65%
Krav i 2022	65%	60%	50%	30%	60%	60%	60%
Krav fra 2025	80%	60%		47%	70%	70%	50%

