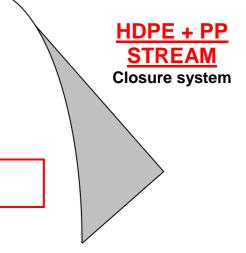
COmité Technique de Recyclage des **E**mballages **P**lastiques



GENERAL NOTICE Technical Sheet

SUBJECT

Behaviour of an aluminium seal in recycling HDPE and PP plastic bottles. **IMPACT SUMMARY TABLE**

Recycling stage	Impact	Description	Consequences
Sorting of bottles	Δ	1 bottle with aluminium seal detected,	◆Higher losses ➤ Increase in waste to be processed
Grinding	Ø		
Washing	Ø		
Flake floating and separation	Δ	One particle of aluminium stuck to HDPE flake Aluminium remains in the HDPE stream	Pollution of HDPE stream
		Aluminium particles not stuck	◆Higher losses ➤ Increase in waste to be processed
Granulation (optional) and Recycling	Δ	Presence of aluminium particles: → - Filters blocked - Channel blocked - Visual flaws - Holes, etc.	Process disruption - increase in machine stoppages - higher losses • Quality flaws > Increase in waste to be processed

Caution Ø No impact
☐ Under examination ➤ Environmental consequences

GENERAL OPINION

In the current state of equipment and techniques used and available in Europe, the presence of this closure system increases material losses in the recycling process.

In order to optimize recycling, COTREP recommends studying substitute systems that take inter-material compatibility into account and/or improvements to the seal's peel-off by consumers.

Work is in progress in the relevant trades and this notice is likely to evolve.

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