



Closure system

General Notice

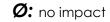
Behaviour of glass components in PET packaging

This Notice relates to a recyclability study for bottles with a pistol containing a glass component.

<u>Summary table of impacts on regeneration</u>

RECYCLING STAGE	IMPACT	DESCRIPTION	Consequences
Sorting on bottles	\wedge	There is no mechanism for detecting the glass	-
Pre-washing	Ø	-	-
Crishing	<u>^</u>	Abrasive to the grinder blades	Equipment wear
Flotation	\triangle	Fragments of glass are mixed with PET flakes, and cannot be separated	-
Washing	Ø	-	-
Sorting on pellets	\wedge	There is no mechanism for detecting the glass	-
Granulation (optional) Recycling	\wedge	Presence of glass particles ⇒ Clogging of filters ⇒ Clogging of the die ⇒ Faults in appearance ⇒ Holes, etc.	- <u>Disruption of the process:</u> ⇒ An increase in machine stoppages ⇒ An increase in losses - <u>Quality problems</u> An increase in losses







Environmental consequences

CONCLUSION

With the equipment and techniques currently available and used in Europe for sorting and recycling, the glass in the pistol significantly disrupts the recycling of PET bottles.

COTREP recommends that a study of substitute systems is conducted, in particular the possibility of using a pistol made entirely of a type of plastic compatible with PET, which will not disrupt the recycling process (see for example *Technical Notice AT-EE-07-06*).

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