














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.

Summary table of impacts on regeneration

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

 : Caution

∅: no impact

➔ 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*).