



## TCEP-P-01.- Selection of Control Resin.

### Background

The Recyclability test requires to make the comparison of the impact of the innovation with a reference polymer. In this case, it requires to produce a sample of extruded film or an injected plaque with a reference resin (3mm thickness). This reference specimen, will be the one used to be compared against the blend of the innovation to evaluate the impact of the innovation in the recycling stream.

Recycle testing requires the comparison of the performance of a plastic article containing a design feature or innovation against a control article that does not employ the new design feature.

The control resin should be selected from a list of named commercial virgin PET resins.

PETCORE EUROPE will maintain a list of commercial PET resins that are known in the European region. These resins are known to have low color, high clarity and typical solid-state IV build characteristics.

### PETCORE Named list

These named resins are recommended for any laboratory evaluations that require a control resin.

Control Resins
INDORAMA RamaPET N1
PLASTIVERD Flow
NOVAPET CR
OCTAL GP01

As a reference, in the case of the application of the protocol for innovation evaluations involving resins or additives, the control resin must also be shown to achieve a solid-state IV build rate over an eight-hour solid stating period of at least 0.012 dl/g hr.

### Control articles

The control resin is typically used to make molded control articles that are used as a reference in the testing protocol. The reference articles are:

- PET film or sheet
- Containers made by thermoforming sheet
- Injected molded standard plaques.



### DOCUMENT REVISION HISTORY

Version	Publication Date	Revision notes
V0	Sept - 21	NEW DOCUMENT
V1	April-23	Platform, document name and logo changes.