HEALTHY PORTFOLIO

DAIRY

EARLY LIFE NUTRITION

WATERS

MEDICAL NUTRITION
Packaging is a complex value chain from upstream to downstream.
## DESIGN GUIDELINES

**WWW.PETBOTTLEPLATFORM.EU**

<table>
<thead>
<tr>
<th>Container</th>
<th>YES</th>
<th>CONDITIONAL</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET</td>
<td>Full compatibility – materials that passed the testing protocols with no negative impact OR materials that have not been tested (yet), but are known to be acceptable in PET recycling</td>
<td>Limited compatibility – materials that passed the testing protocols if certain conditions are met OR materials that have not been tested (yet), but pose a low risk of interfering with PET recycling</td>
<td>Low compatibility – materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PET recycling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>PLA; PVC; PS; PETG</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Colours</th>
<th>transparent clear; transparent light blue</th>
<th>other transparent colours; opaque; metallic</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Barrier</th>
<th>SiOx plasma-coating</th>
<th>carbon plasma-coating; PA multilayer with &lt;5 wt% PA and no tie layers; PGA multilayer; PTN alloy</th>
<th>PA multilayer with &gt;5 wt% PA or tie layers; monolayer PA blend; EVOH</th>
</tr>
</thead>
</table>

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*DANONE waters*
BIOPLASTICS: PLASTICS DERIVED FROM DIFFERENT RENEWABLE FEEDSTOCKS

**Generation I**
- **Today**
  - Cassava, corn starch, sugar cane, beet...
  - Feedstock potentially suitable for food or feed

**Generation II**
- **Industrial in 2020**
  - Bagasse, wood chips, switch grass, straw...
  - Feedstock not suitable for food or feed

**Generation Next**
- **Industrial in 2025**
  - Algae - Syngas (gasified organic matters or ind. off-gases)
  - Feedstock not suitable for food or feed
In general, countries with landfill ban achieve higher recycling rates

Too much differences between EU member states
In Brazil: 600 cooperatives working with 60,000 “waste-pickers” on a total of 400,000 officially recognized in the country (In reality there are more than 1 million)
DANONE new pack policy is now on line!

HTTP://WWW.DANONE.COM/EN/FOR-ALL/SUSTAINABILITY/POSITION-PAPERS-AND-POLICIES/