Ultradur® – the solution for sustainable packaging

The world’s first thermoformable Ultradur® grade for high barrier packaging

Regulations are setting the framework for the packaging industry in combination with the public awareness and request for transparency during the whole production process up until the sustainable end-of-life performance of every manufactured good.

The monomaterial Ultradur® for thin wall food packaging enables a mechanical recycling concept. On top, the excellent barrier properties extend the shelf life which leads to reduced food waste and transport costs. The excellent mechanical properties allow very thin wall geometries. All this makes Ultradur® a sustainable alternative to PET/PO solutions and aluminum.

We create chemistry for a sustainable future

One-material-solution for high barrier packaging

Non-food application

Excellent for technical parts
- Injection molding
- Extrusion
- Thermoforming

Ultradur®
- Recyclable high barrier monomaterial
- Closed loop possible

1) developed by cyclos-HTP
Life Cycle Impact Assessment – Cradle to Gate

**Key properties:**
- High melting point
- Fast crystallization
- High dimensional stability
- Good flowability
- Oxygen and water vapor barrier
- Good electric properties
- Perfect fit for numerous applications

Excellent barrier properties

Many foods have their shelf life limited by fat oxidation

<table>
<thead>
<tr>
<th>Material</th>
<th>Oxygen transmission after 100 days [cm³]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al</td>
<td>0.0</td>
</tr>
<tr>
<td>PBT</td>
<td>0.001</td>
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<tr>
<td>PP/EVOH/PP</td>
<td>3.5</td>
</tr>
<tr>
<td>PET</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Extended shelf life results in: reduced food waste, transport costs and extending export destinations

For technical queries relating to Ultradur®
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