TOTAL POLYPROPYLENE
LUMICENE® RANDOM COPOLYMERS

Brightening the packaging world
TOTAL POLYPROPYLENE LUMICENE® RANDOM COPOLYMERS

Based on proprietary Metallocene technology, TOTAL Polypropylene Lumicene® Random copolymers combine improved properties while allowing significant processing costs reductions.

Superior food compatibility
- Lowest migration
- Excellent organoleptics
- Sterilization and pasteurization allowed
- Phthalate free

Higher rigidity
- Downgauging
- Reduced cooling time

Outstanding aesthetics
- Unmatched gloss and transparency

Moulding productivity
- Ultra high moulding precision and reproducibility
- Longer machine lifetime
- Lower reject rate
BENEFITS OF LUMICENE® TECHNOLOGY

**Food safety & Aesthetics**

**Superior food compatibility**

Ultra low extractables and best-in-class organoleptic properties give the TOTAL Polypropylene Lumicene® range the status of universal grade for food packaging from freezer to microwave.

**Unmatchable gloss & transparency**

TOTAL Polypropylene Lumicene® Random Copolymers are well known for their outstanding aesthetics. This property allows entering in markets like cosmetics, personal care, houseware and food packaging. TOTAL Polypropylene Lumicene® Random Copolymers are outstanding alternatives to glass and technical polymers.

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**2 hours 100°C, olive oil**

- **Regulation limit**

- **Market reference High MFI Random**
- **Lumicene® Random**

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**GLOBAL MIGRATION**

- Standard random PP
- Lumicene® MR30MC2
- Lumicene® MR10MX0
### Product range

<table>
<thead>
<tr>
<th>Grade</th>
<th>MFI (2.16 Kg – 230°C) (g/10min)</th>
<th>Flexural Modulus (MPa)</th>
<th>Specific Features</th>
<th>Typical application</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR10MX0</td>
<td>10</td>
<td>1250</td>
<td>Ultra high transparency</td>
<td>Baby bottles, ISBM containers, films</td>
</tr>
<tr>
<td>MR30MC2</td>
<td>30</td>
<td>1250</td>
<td>High transparency</td>
<td>Caps and closures, medical devices</td>
</tr>
<tr>
<td>MR60MC2</td>
<td>60</td>
<td>1250</td>
<td>High transparency</td>
<td>Housewares and food packaging</td>
</tr>
</tbody>
</table>

Product range covers a wide range of applications and add a new dimension to more traditional applications.