Your partner in
240-HP25
High productivity resin for hinge caps
The latest Polypropylene Random Copolymer for Caps and Closures

INEOS Olefins & Polymers Europe
240-HP25 for Caps & Closures

Product features

/ Faster crystallisation
/ Higher fluidity
/ Enhanced impact/stiffness balance
/ Excellent hinge performance
/ Clarified and antistatic

Energy consumption

- Productivity
- Lower processing T°

Cycle time

- Higher Tc
- Up to 10 % reduction
- Up to 10 % reduction
Benefits for the customers

The developed 240-HP25 from Innovene™ PP technology offers the following advantages:

/ **Increased productivity**
  resulting from
  - lower processing temperatures
  - higher crystallisation rate

/ **Lightweighting potential**
  potential as a consequence of higher rigidity and improved impact performance

/ **Energy savings**
  from lower processing temperatures and reduced cycle times

240-HP25 is food contact approved and is available with an organoleptic guarantee (Eltex® P 240-OR25)
# Product Characteristics

Comparison with standard random Copolymers

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Standard</th>
<th>200-CA13</th>
<th>200-CA25</th>
<th>240-HP25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate 230 °C/2.16 kg</td>
<td>g/10 min</td>
<td>ISO 1133</td>
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<td>25</td>
<td>25</td>
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<tr>
<td>Flexural Modulus at 23 °C</td>
<td>MPa</td>
<td>ISO 178</td>
<td>1100</td>
<td>1100</td>
<td>1200</td>
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<tr>
<td>Tensile Strength at Yield, 23 °C</td>
<td>MPa</td>
<td>ISO 527-1,-2</td>
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<td>28</td>
<td>30</td>
</tr>
<tr>
<td>N.Izod at 23 °C</td>
<td>kJ/m²</td>
<td>ISO 180/1A</td>
<td>6</td>
<td>5.5</td>
<td>6</td>
</tr>
<tr>
<td>N.Izod at 0 °C</td>
<td>kJ/m²</td>
<td>ISO 180/1A</td>
<td>3.3</td>
<td>2.8</td>
<td>3.3</td>
</tr>
<tr>
<td>Multiaxial Impact Strength at 23 °C</td>
<td>J/mm</td>
<td>ISO 6603-2</td>
<td>15.2</td>
<td>7.4</td>
<td>15.7</td>
</tr>
<tr>
<td>Haze 1 mm</td>
<td>%</td>
<td>ASTM D 1003</td>
<td>15</td>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>Crystallisation Temperature</td>
<td>°C</td>
<td>DSC, INEOS</td>
<td>119</td>
<td>119</td>
<td>126</td>
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<tr>
<td>HDT at 0.45 MPa</td>
<td>°C</td>
<td>ISO 75/B</td>
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<tr>
<td>Vicat at 10 N</td>
<td>°C</td>
<td>ISO306/A50</td>
<td>130</td>
<td>129</td>
<td>134</td>
</tr>
</tbody>
</table>

Data not to be considered as specification

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**MFR** (0 - 25 g/10 min)

**Vicat** (120 - 134 °C)

**Flexural Modulus** (700 - 1200 MPa)

**Crystallisation T°** (100 - 126 °C)

**N. Izod at 0 °C** (2 - 3.3 kJ/m²)

**Multiaxial Impact Strength at 23 °C** (0 - 16 J/mm)
About us

INEOS is one of the world’s largest chemical companies, founded in 1998. INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

INEOS Olefins & Polymers Europe offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.

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