Your partner in
PP RANDOM COPOLYMERS
240-HP SERIES
Clear and strong polypropylene
Improved optical properties, gloss levels and impact improvement over homopolymer

INEOS Olefins & Polymers Europe
Product Technical Information
New random polypropylene copolymers for injection-moulding

The 240-HP series is a novel high clarity and high flow random polypropylene copolymer range intended for the injection-moulding of transparent containers with very high clarity:

/  Thin wall food containers for fridge storage
/  Houseware
/  Media packaging
/  Transparent pails

Moulders will not only benefit from the better stiffness/impact/fluidity performance of the materials allowing for down-gauging, they will also be able to reduce the moulding cycle time, hence increase productivity, benefitting from higher crystallisation temperature of the new grade.
Benefits for the customers

/ Improved transparency/impact at room temperature/ stiffness balance

/ Excellent processability

/ Antistatic

/ Energy savings potential thanks to lower processing melt temperatures

/ Increased productivity by cycle time reduction thanks to lower processing temperature and a higher crystallisation temperature enabling to reduce the cooling time

Potential Savings versus Standard clarified Copolymers

The new grades allow for lower processing temperature without loss in mechanical properties or clarity. This brings energy savings and productivity gain by shorter cycle time.
### Product Characteristics

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<tbody>
<tr>
<td><strong>Melt Flow Rate</strong></td>
<td>2.16kg @230 °C</td>
<td>ISO 1133</td>
<td>g/10 min</td>
<td>25</td>
<td>25</td>
<td>40</td>
<td>40</td>
<td>50</td>
<td>80</td>
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<tr>
<td><strong>Flexural Modulus</strong></td>
<td>@23°C</td>
<td>ISO 178</td>
<td>MPa</td>
<td>1100</td>
<td><strong>1200</strong></td>
<td>1100</td>
<td><strong>1100</strong></td>
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<tr>
<td><strong>Tensile Strength @yield</strong></td>
<td>@23°C</td>
<td>ISO 527-1,-2</td>
<td>MPa</td>
<td>28</td>
<td>30</td>
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<tr>
<td><strong>Izod Notched Impact Strength</strong></td>
<td>@23°C</td>
<td>ISO 180/1A</td>
<td>kJ/m²</td>
<td>5.5</td>
<td>6</td>
<td>5</td>
<td>5.5</td>
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<tr>
<td><strong>Izod Notched Impact Strength</strong></td>
<td>@0°C</td>
<td>ISO 180/1A</td>
<td>kJ/m²</td>
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<td>3.3</td>
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<td>3.2</td>
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<td><strong>Haze</strong></td>
<td>1mm Plate</td>
<td>ASTM D1003</td>
<td>%</td>
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<td>18</td>
<td>15</td>
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<td>35</td>
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<tr>
<td><strong>T° Crist</strong></td>
<td>-</td>
<td>DSC Method</td>
<td>°C</td>
<td>119</td>
<td><strong>126</strong></td>
<td>119</td>
<td><strong>126</strong></td>
<td>118</td>
<td><strong>126</strong></td>
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<tr>
<td><strong>T° Vicat</strong></td>
<td>10 N</td>
<td>ISO 306/A50</td>
<td>°C</td>
<td>129</td>
<td><strong>134</strong></td>
<td>128</td>
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<td><strong>HDT</strong></td>
<td>0.45 MPa</td>
<td>ISO 75/B</td>
<td>°C</td>
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</tbody>
</table>

**MFR 25**
- Flexural Modulus @23°C
- Haze 1mm, % rel
- Notched Izod @23°C
- T° Crist, % rel
- Notched Izod @0°C

**MFR 40 and 80**
- Flexural Modulus @23°C
- Haze 1mm, % rel
- Notched Izod @23°C
- T° Crist, % rel
- Notched Izod @0°C

**MFR 80**
- 200-CA40
- 240-HP40
- MFR 80

**MFR 80**
- MFR 80
- 240-HP80

**MFR 25**
- 200-CA25
- 240-HP25

**MFR 40**
- 200-CA40
- 240-HP40

**MFR 80**
- MFR 80
- 240-HP80

*MEDIUM FLOW*
- MFR 25

*HIGH & VERY HIGH FLOW*
- MFR 40 and 80
- MFR 80
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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