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## ExxonMobil PP



## **PP7085E1**

ExxonMobil PP7085E1 is an impact copolymer resin with good flowability. This product is nucleated and contains an antistatic agent.

## **Typical values**

| Properties                                    | Unit              | Test method  | Value |
|-----------------------------------------------|-------------------|--------------|-------|
|                                               |                   | (based on) 🤺 |       |
| Melt flow rate MFR 230/2.16                   | g/10 min          | ISO 1133 🦯   | 75    |
| Mechanical properties                         |                   |              |       |
| Tensile modulus of elasticity (v = 1 mm/min)  | MPa               | ISO 527-2    | 1150  |
| Tensile yield stress (v = 50 mm/min)          | MPa               | ISO 527-2    | 23    |
| Tensile yield strain (v = 50 mm/min)          | %                 | ISO 527-2    | 5     |
| Flexural modulus                              | MPa               | ISO 178      | 1125  |
| Izod impact strength notched + 23 °C          | kJ/m <sup>2</sup> | ISO 180/1A   | 5.5   |
| Charpy impact strength notched + 23 °C        | kJ/m²             | ISO 179/1eA  | 7.5   |
| + 0°C                                         |                   |              | 5     |
| - 20°C                                        |                   |              | 4     |
| Shore-hardness D                              |                   | ISO 868      | 61    |
| Thermal properties                            |                   |              |       |
| Melting point, DSC                            | °C                | ISO 3146     | 161   |
| Crystallisation point, DSC                    | °C                | ISO 3146     | 123 🦯 |
| Heat deflection temperature - HDT/A (1.8 MPa) | °C                | ISO 75-2     | 50    |
| - HDT/B (0.45 MPa)                            |                   |              | 82    |
| Vicat softening temperature - VST/A50 (10 N)  | °C                | ISO 306      | 147   |
| Other properties                              |                   |              |       |
| Density                                       | g/cm <sup>3</sup> | ISO 1183     | 0.9   |
|                                               |                   |              |       |

## Applications

Thin wall injection molding

To the best of our knowledge, the polymers and copolymers grades mentioned in this page are intended for various food contact applications in the European Members States and the USA. Restrictions and use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliances certification documents.

ExxonMobil PP7085E1 has not been designed for applications in the pharmaceutical/medical sector. ExxonMobil Chemical therefore strongly discourages the use of ExxonMobil PP7085E1 for applications in the pharmaceutical/medical sector.

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