



# HMC Polymers

**A Most Admired Company**

An associate of PTTGC & LyondellBasell

## Moplen HP640U

High flow polypropylene for thin wall injection molding (TWIM)

### Features

- Ease of processing allows increased design freedom
- Excellent dimensional stability
- Processes with low built-in stress
- High flow with good impact strength
- Improved transparency, gloss, and color shade

### Typical applications

- High speed injection molding
- Food containers
- Drinking cups
- Thin wall cylinders
- Thin, complex parts

### PP Resin Properties (a)

|   | Value | ASTM METHOD(b) |
|---|-------|----------------|
| Melt flow rate (230°C / 2.16 kg), dg/min  | 75    | D1238          |
| Density, g/cm <sup>3</sup>                | 0.90  | D792B          |
| Tensile strength at yield, MPa            | 37    | D638           |
| Elongation at yield, %                    | 9     | D638           |
| Flexural modulus, MPa                     | 1750  | D790A          |
| Notched izod impact strength at 23°C, J/m | 26    | D256A          |
| Deflection temperature, at 455 kPa, °C    | 117   | D648           |

(a) Values shown are averages and are not to be considered as specifications.

(b) ASTM test methods are the latest under the Society's current procedures. All molded specimens are prepared by injection molding.

Note: Due to the fact that different regulations in each country set different details of compliance, users of *Moplen* HP640U are recommended to undertake their own investigation of the requirements and comply with each regulation set forth, for instance, in applicable local F&DA requirements. Ultimately the users must make their own determination that their use of *Moplen* HP640U is safe, lawful and technically suitable in their intended applications. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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(i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;

(ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;

(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;

(iv) tobacco related products and applications, electronic cigarettes and similar devices.

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(ii) applications involving permanent implantation into the body;

(iii) life-sustaining medical applications.

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HMC Polymers is certified according to ISO 9001 and 14001

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