



HMC Polymers

Moplen HP648N

High stiffness resin for caps, closures, housewares, toys

Features

- Short cycle time for high productivity
- Resist dust pick-up
- Enhance stiffness
- Low odor and taste transfer
- Excellent resistance to environmental stress-cracking

Typical applications

- Lightweight containers
- Housewares
- Closures
- Hospital and institutional wares
- Toys

PP Resin Properties (a)	Value	ASTM METHOD(b)
Melt flow rate (230°C / 2.16 kg), g/10min	12	D1238
Density, g/cm ³	0.90	D792B
Tensile strength at yield, MPa	38	D638
Elongation at yield, %	8.0	D638
Flexural modulus, MPa	1870	D790A
Notched izod impact strength at 23°C, J/m	32	D256A
Deflection temperature, at 455 kPa, °C	122	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 HP648N 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 HP648N 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.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (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.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Storage

The resin should be stored in a dry location with good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Resin should be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The container should be kept closed to prevent contamination. For the additional recommended storage conditions, please refer to SDS.

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HMC Polymers is certified according to ISO 9001 and 14001

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The purpose of this document is only for technical support of the use of the product.

Before using a HMC Polymers product, customers and other users should make their own independent determination that the product is suitable for the intended use. They should also ensure that they can use the HMC Polymers product safely and legally. This document does not constitute a warranty, express or implied, including a warranty of merchantability or fitness for a particular purpose. In addition, no immunity under HMC Polymers', LyondellBasell's or third parties' intellectual property rights shall be implied from this document. No one is authorized to make any warranties, issue any immunities or assume any liabilities on behalf of HMC Polymers except in a writing signed by an authorized HMC Polymers employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at HMC Polymers' option, and in no event shall HMC Polymers be liable for special, consequential, incidental, punitive or exemplary damages.

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