



REPSOL HEALTHCARE HPP40N

HPP40N is a polypropylene homopolymers of very high fluidity intended for injection moulding. It is a nucleated grade and is characterised by good flow properties that facilitates an easy mould filling and short cycle times. Due to the specific crystalline structure, at the same time, it exhibits high stiffness and low warpage

This grade has been produced with a Phthalate Free Catalytic system

Typical Applications

- ✓ Healthcare applications
- ✓ Caps & Closures

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line. Physical blends with other materials might cause incompatibilities

PROPERTIES	VALUE	UNIT	TEST METHOD
General Melt Flow Rate (230 °C; 2.16 kg) Density at 23°C Melting temperature	40 905 164	g/10' kg/m ³ °C	ISO 1133 ISO 1183 Internal (DSC)
Mechanicals Flexural Modulus Charpy Impact Strength Notched 23°C	1700 2,5	MPa kJ/m ²	ISO 178 ISO 179
Thermal Heat Deflection Temperature 0.45MPa	95	°C	ISO 75

For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

HPP40N complies in composition with EP 3.1.3, EP 3.1.6 and USP.

STORAGE

HPP40N should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

*This product(s) may not be used in:

- (i) any U.S. FDA Class I and/or European Union Class I Medical Devices (Non-invasive devices), without prior notification to Seller for each specific product and application
- (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II and/or European Union Class II Medical Devices:
 - Category IIa: Invasive devices with limited risk: e.g. syringes, lancets, insulin pens.
 - Category IIb: Invasive devices with higher risk: e.g. pouches for dialysis processes.
- (iii) in U.S. FDA Class III, and/or European Class III Medical Devices; Category III: Very high risk devices: long-term (> 29 days) or permanent implants, long term (> 29 days) applications in direct contact with any body part or any body fluid.

*Repsol makes no warranties, express or implied, which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose

*Repsol accepts no liability from the use of Repsol products in conjunction with other materials.

* Before using a product sold by Repsol, users should make their own independent determination that the product is safe, lawful and technically suitable for the intended use.

May 2017