Technical data sheet Chemicals

REPSOL HEALTHCARE HPR50CMD

HPR50CMD is a polypropylene random copolymer with high fluidity intended for injection moulding. It is characterized by its high transparency, improved organoleptic properties. It is clarified and contains antistatic additives that reduce the presence of dust during storage. These additives also facilitate article release from the mould.
This grade has been produced with a Phthalate Free Catalytic system.

Typical Applications

- ✓ Healthcare Aplications
- ✓ Syringe Barrels

Recommended melt temperature range from 230 to 250ºC. 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)	50	g/10'	ISO 1133
Density at 23ºC	905	kg/m^3	ISO 1183
Melting temperature	149	ºC	Internal (DSC)
Mechanicals			
Flexural Modulus	1150	MPa	ISO 178
Charpy Impact Strength Notched 23ºC	5	kJ/m^2	ISO 179
Thermal			
Heat Deflection Temperature 0.45MPa	72	ºC	ISO 75

For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.
HPR50CMD complies in composition with USP

STORAGE

HPR50CMD should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC 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

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles. Madrid
Tel. +34 91 753 86 00
atd_poliolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com