

# REPSOL HEALTHCARE® HHD62G

HHD62G is a high density polyethylene copolymer of hexane with medium molecular weight. It is specially designed to make containers of small and medium capacity by extrusion blow moulding. This grade contains stabilizers according to the end-use of the item in order to reinforce its thermal stability.

Good mechanical properties and excellent stiffness can be obtained with REPSOL Healthcare HHD62G due to its molecular weight and density.

## TYPICAL APPLICATIONS

Pharmaceutical packaging and healthcare applications.

Recommended melt temperature range from 165 to 210°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
<b>General</b>			
Melt Flow Rate (190 °C; 2.16 kg)	0.30	g/10 min	ISO 1133
Melt Flow Rate (190 °C; 21.6 kg)	30.0	g/10 min	ISO 1133
Density at 23°C	962	kg/m <sup>3</sup>	ISO 1183
Tensile Strength at Break	30	MPa	ISO 572-2
Elongation at Break	790	%	ISO 572-2
Flexural Modulus of Elasticity	1550	MPa	ISO 178
<b>Other</b>			
Vicat Softening Temperature (10N)	130	°C	ISO 306
Shore Hardness D	68	°	ISO 868
Environmental Stress Cracking Resistance (F50)	15	h	ASTM D-1693 (1)

(1) 10% Igepal, 50°C

Repsol Healthcare® HHD62G additives are in compliance with EP 3.1.3, EP 3.1.5 and USP. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

## STORAGE

HHD62G 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.

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