TECHNICAL DATA SHEET

# Repsol HEALTHCARE® HLD20S

HLD20S is a low density polyethylene grade of high fluidity intended for those injection moulding applications in which toughness and good flow properties are required. Its formulation does not contain additives.

For specific information on sterilization resistance, please contact the Technical Service & Development Department.

## Applications:

- Bags
- Pouches
- Blow-fill-seal applications
- Medical films
- Small blow molding bottles

Recommended melt temperature range from 150 to 180ºC. Processing conditions should be optimized for each production line.

## Properties:

| Properties | Value | Unit | Test Method |
|---|---|---|---|
| **GENERAL** | | | |
| Melt flow rate (190ºC, 2.16kg) | 22 | g/10 min | ISO 1133 |
| Density at 23 ºC | 923 | kg/m3 | ISO 1183 |
| **MECHANICAL** | | | |
| Flexural Modulus | 150 | Mpa | ISSO 178 |
| Tensile Strength at Break | 9 | Mpa | ISO 527-2 |
| Tensile Strain at Break | 375 | % | ISO 527-2 |
| **OTHER** | | | |
| Vicat Softening Temperature (10N) | 89 | ºC | ISO 306 |
| Shore Hardness | 47 | D Scale | ISO 868 |



This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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## Storage:

The grade HLD20S should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and the properties of the transformed product.

## Disclaimer:

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Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

## Medical policy

End-users and convertors must follow mandatorily the next Medical Policy:

(i) Class I Medical Devices (European Union and/or U.S. FDA): the product may only be used for this purpose with prior notification to Repsol of each specific final application.

(ii) Class II Medical Devices (European Union and/or U.S. FDA): the product may only be used for this purpose with Repsol's prior written approval.

(iii) This product may not be used for implantable devices and for Class III Medical Devices (European Union and/or U.S. FDA).

*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.

*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.

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

## Related documents:

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet.
- Regulatory Compliance Certificate.

**Recommended consumption period**: 12 months from the date of delivery to the customer.

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