

Producer: REPSOL YPF / SPAIN

HDPE REPSOL 5203

ALCUDIA® 5203 is a high-density polyethylene copolymer of hexene, with middle molecular weight. It is specially designed to make, by blow moulding-extrusion, up to 20 litres containers for liquid detergents and chemicals. This grade contains stabilisers according to the end use of the item in order to reinforce the thermal stability.

Good mechanical properties and good level of both stiffness and environmental stress cracking resistance can be obtained with **ALCUDIA® 5203** due to its molecular weight and density.

MAIN APPLICATIONS

Packaging of liquid detergents and chemical.

PROCESSING

| BARREL | HEAD | MELT TEMPERATURE |
|-----------------|-----------------|------------------|
| 160 °C - 190 °C | 180 °C - 200 °C | 180 °C - 200 °C |

| PROPERTY | TEST | UNIT | VALUE |
|--|------------|-------------------|-------|
| A) GENERAL | | | |
| - Melt Flow Index (2.16 Kg /190 °C) | ISO-1133 | g/10 min | 0.2 |
| (21.6 Kg /190 °C) | ISO-1133 | g/10 min | 20.0 |
| - Density at 23°C | ISO-1183 | Kg/m ³ | 950 |
| - Vicat Softening Point | ISO-306 | °C | 127 |
| - Hardness, Shore D | ISO-868 | ° | 63 |
| B) MECHANICAL | | | |
| - Tensile Strength. | ISO-527 | MPa | 27 |
| - Elongation at Break. | ISO-527 | % | 700 |
| - Flexural Modulus | ISO-178 | MPa | 1100 |
| C) OTHER | | | |
| - Environmental Stress Cracking Resistance (ESCR), F ₅₀ | MA-55-3020 | h | 60 |

ALCUDIA® 5203 complies with FDA standards and European Directives regarding contact with foodstuffs. For more information, please contact our Commercial Delegations.

STORAGE

The polyethylene **ALCUDIA® 5203** should be stored in dry environment at temperatures below 60 °C and protected from UV-light. Improper storage can initiate degradation process can have negative effects in the procesability and the properties of the transformed product.