

**REPSOL  
YPF**



**ALCUDIA®  
HD POLYETHYLENE**

## 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

### PROPERTIES

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

**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.