

**REPSOL
YPF****ALCUDIA®
HD POLYETHYLENE**

5502-E

ALCUDIA® 5502-E is a high-density polyethylene copolymer of hexene, with high molecular weight. It is specially designed to make, by blow moulding-extrusion, tanks 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 environmental stress cracking resistance can be obtained with **ALCUDIA® 5502-E** due to its molecular weight and density.

MAIN APPLICATIONS

Packaging of non-aggressiv liquid detergents and chemicals.

PROCESSING

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

PROPERTIES

PROPERTIES	UNIT	TYPICAL VALUE	TEST METHOD
A) GENERAL			
- Melt Flow Index (2.16 Kg /190 °C)	g/10 min	0.21	ISO-1133
(21.6 Kg /190 °C)	g/10 min	22.0	ISO-1133
- Density at 23°C	Kg/m ³	955	ISO-1183
- Vicat Softening Point	°C	128	ISO-306
- Hardness, Shore D	°	65	ISO-868
B) MECHANICAL			
- Tensile Strength.	MPa	28	ISO-527
- Elongation at Break.	%	800	ISO-527
- Flexural Modulus	MPa	1200	ISO-178
C) OTHER			
- Environmental Stress Cracking Resistance (ESCR), F ₅₀	h	35	MA-55-3020

ALCUDIA® 5502-E complies with FDA standards and European Directives regarding contact with foodstuffs. For more information, please contact our Commercial Delegations.

STORAGE

The polyethylene **ALCUDIA® 5502-E** 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.

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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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