



## 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
<b>A) GENERAL</b>			
- 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 <sup>3</sup>	955	ISO-1183
- Vicat Softening Point	°C	128	ISO-306
- Hardness, Shore D	°	65	ISO-868
<b>B) MECHANICAL</b>			
- Tensile Strength.	MPa	28	ISO-527
- Elongation at Break.	%	800	ISO-527
- Flexural Modulus	MPa	1200	ISO-178
<b>C) OTHER</b>			
- Environmental Stress Cracking Resistance (ESCR), F <sub>50</sub>	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.

January 2004

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.

**Head Offices:**  
P.º de la Castellana, 280  
28046 Madrid  
Spain  
[www.repsolypf.com/quimica](http://www.repsolypf.com/quimica)  
e-mail: [quimica@repsolypf.com](mailto:quimica@repsolypf.com)

**Customer Service in Europe:**  
UK, Ireland, Scandinavia:  
France, Benelux:  
Germany, Austria, Switzerland:  
Italy:  
Spain:  
Portugal:  
Other Countries:

**Telephone:**  
+44 20 7581 0300  
+33 (1) 46 965 102  
+49 (69) 610 93 20  
+39 (02) 40 933 92 05  
+34 91 348 82 54  
800 55 55 55 11  
+34 91 348 90 84

**e-mail:**  
[sac.uk@repsolypf.com](mailto:sac.uk@repsolypf.com)  
[sac.france@repsolypf.com](mailto:sac.france@repsolypf.com)  
[sac.deutschland@repsolypf.com](mailto:sac.deutschland@repsolypf.com)  
[sac.italy@repsolypf.com](mailto:sac.italy@repsolypf.com)  
[sac.quimica@repsolypf.com](mailto:sac.quimica@repsolypf.com)  
[sac.portugal@repsolypf.com](mailto:sac.portugal@repsolypf.com)  
[sac.quimica@repsolypf.com](mailto:sac.quimica@repsolypf.com)

**TS & Development:**  
Tel.+34 91 348 8600  
Fax: +34 91 530 45 17  
e-mail: [atdquimica@repsolypf.com](mailto:atdquimica@repsolypf.com)  
Crtra. Nac. V, km. 18  
28931 Móstoles, Madrid  
Spain