

Producer: Repsol YPF / Spain

5502-E

Description:

ALCUDIA® High Density Polyethylene.

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	UNIT	TUPICAL VALUE	TEST METHOD
General			
Melt Index (190 °C/2.16 kg)	g/10 min	0.21	ISO - 1133
(190 °C/21.6 kg)	g/10 min	22.0	ISO - 1133
Density at 23 °C	kg/cm ³	955	ISO - 1183
Vicat Softening Point	°C	128	ISO - 306
Hardness, Shore D	.	65	ISO - 868
Mechanical properties ^(C)			
Tensile strength	Mpa	28	ISO - 527
Elongation at Break	%	800	ISO - 527
Flexural Modulus	Mpa	1200	ISO - 178
Other			
Environmental Stress Cracking Resistance (ESCR), F ₅₀	h	35	MA - 55 - 3020

ALCUDIA® 5502-E comlies with FDA standarts and European Directives regarding

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.