

# ALCUDIA® HDPE 5502E

High Density (HMW) Polyethylene  
REPSOL

Message:

ALCUDIA® 5502E is a high-density polyethylene copolymer of hexene, with high molecular weight. It is specially designed to make, by blow molding-extrusion, tanks for liquid detergents and chemicals. This grade contains stabilizers 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® 5502E due to its molecular weight and density.

TYPICAL APPLICATIONS

Packaging of non-aggressive liquid detergents and chemicals.

Recommended melt temperature range from 180 to 200°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Heat Stabilizer		
Features	Detergent Resistant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Heat Stabilized		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Packaging		
	Tanks		
Agency Ratings	EU Food Contact, Unspecified Rating		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.955	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.23	g/10 min	
190°C/21.6 kg	22	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal)	35.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	28.0	MPa	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ISO 306/A
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 200	°C	

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#### Recommended distributors for this material

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