ALCUDIA® HDPE 5803

High Density Polyethylene

REPSOL

Message:

ALCUDIA® 5803 is a bimodal high-density polyethylene with middle 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 mechanical properties and good level of both stiffness and environmental stress cracking resistance can be obtained with ALCUDIA® 5803 due to its molecular weight and density.

TYPICAL APPLICATIONS

Packaging of liquid detergents and cleaners.

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

General Information				
Additive	Heat Stabilizer			
Features	Bimodal Molecular Weight Distribution			
	Food Contact Acceptable			
	Heat Stabilized			
	High ESCR (Stress Crack Resist.)			
	Medium Molecular Weight			
Uses	Blow Molding Applications			
	Packaging			
	Tanks			
Agency Ratings	EU Food Contact, Unspecified Rating			
Processing Method	Extrusion Blow Molding			
Physical	Nominal Value	Unit	Test Method	
Density (23°C)	0.958	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR)			ISO 1133	
190°C/2.16 kg	0.25	g/10 min		
190°C/21.6 kg	28	g/10 min		
190°C/5.0 kg	1.1	g/10 min		
Environmental Stress-Cracking Resistance				
(50°C, 10% Igepal, F50)	> 100	hr	ASTM D1693	
Hardness	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D)	66		ISO 868	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Stress			ISO 527-2	
Yield	30.0	MPa		
Break	30.0	MPa		
Tensile Strain (Break)	800	%	ISO 527-2	
Flexural Modulus	1400	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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