ALCUDIA® HDPE 5203

High Density Polyethylene

REPSOL

Message:

ALCUDIA® 5203 is a high-density polyethylene copolymer of hexene, with middle molecular weight. It is specially designed to make, by blow molding-extrusion, up to 20 liters containers 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® 5203 due to its molecular weight and density.
TYPICAL APPLICATIONS
Packaging of liquid detergents and chemical.
Recommended melt temperature range from 180 to 200°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Heat Stabilizer		
Features	Food Contact Acceptable Good Stiffness Heat Stabilized Hexene Comonomer High ESCR (Stress Crack Resist.) Medium Molecular Weight		
Uses	Blow Molding Applications Containers Packaging		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Extrusion Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.950	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.20	g/10 min	
190°C/21.6 kg	20	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	60.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	63		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	27.0	MPa	ISO 527-2
Tensile Strain (Break)	700	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	127	°C	ISO 306/A

Extrusion	Nominal Value	Unit
Melt Temperature	180 to 200	°C

Recommended distributors for this material

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