

ALCUDIA® HDPE 5503

High Density Polyethylene
REPSOL

Message:

ALCUDIA® 5503 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.

Excellent environmental stress cracking resistance can be obtained with ALCUDIA® 5503 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	Food Contact Acceptable		
	Heat Stabilized		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Packaging		
	Tanks		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.955	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.25	g/10 min	
190°C/21.6 kg	29	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	> 70.0	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)	700	%	ISO 527-2
Flexural Modulus	1100	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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

