

ALCUDIA® HDPE 55045

High Density Polyethylene
REPSOL

Message:

ALCUDIA® 55045 is a bimodal high-density polyethylene with high molecular weight. It is especially designed to make, by blow moulding, tanks of medium and high capacity and jerricans for the transportation of dangerous goods. This grade contains stabilisers according to the end-use of the item in order to reinforce the thermal stability.

It has an excellent stiffness and cracking resistance balance, so it's recommended to Jerrican containers for the transportation of dangerous goods.

TYPICAL APPLICATIONS

Blow moulding of medium, high capacity containers and jerricans.

Recommended melt temperature range from 180 to 220°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.)		
	High Molecular Weight		
Uses	Blown Containers		
	Containers		
	Jerricans		
	Tanks		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.955	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	28.0	MPa	
Break	38.0	MPa	
Tensile Strain (Break)	850	%	ISO 527-2
Flexural Modulus	22.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	22	kJ/m ²	ISO 179
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 200	°C	

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Recommended distributors for this material

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