

ALCUDIA® HDPE 53070

High Density Polyethylene
REPSOL

Message:

ALCUDIA® 53070 is a high-density polyethylene copolymer of hexene, with high molecular weight. It is especially designed to make, by blow moulding, tanks of medium and high capacity. Also for thermoforming sheets.

This grade contains stabilisers according to the end-use of the item in order to reinforce the thermal and light stability.

It has an excellent environmental stress cracking resistance (ESCR)

It has an excellent stiffness and impact resistance, and high chemical resistance, so it's recommended to Jerrican containers.

TYPICAL APPLICATIONS

Blow moulding of jerrican containers.

Recommended melt temperature range from 180 to 210°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Stiffness		
	Good UV Resistance		
	Heat Stabilized		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Blow Molding Applications		
	Jerricans		
	Sheet		
	Tanks		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Blow Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.954	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	6.7	g/10 min	
190°C/5.0 kg	0.30	g/10 min	

Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	> 190	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	25.0	MPa	
Break	35.0	MPa	
Tensile Strain (Break)	950	%	ISO 527-2
Flexural Modulus	1250	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 210	°C	

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