

ALCUDIA® HDPE 49070-UV

High Density Polyethylene
REPSOL

Message:

ALCUDIA® 49070UV is a high-density polyethylene copolymer of hexene, with high molecular weight. It is especially designed to make, by blow molding, containers of medium and high capacity (up to 5000 litres), for petroleum derivatives. This grade contains stabilizers 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) and impact resistance.

This grade is suitable to produce containers according to the Spanish UNE-53432 parts 1, 2 and 3 and the EN 13341 in Europe, or NFM-88-560 in France. It is also included in the German DIBT list of materials to contain petroleum derivatives.

TYPICAL APPLICATIONS

IBC tanks

High capacity containers.

Recommended melt temperature range from 190 to 215°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Heat Stabilized		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Blow Molding Applications		
	Blown Containers		
	Containers		
	Tanks		
Agency Ratings	EN 13341		
	EU Food Contact, Unspecified Rating		
	NF M 88-560		
	UNE 53432		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.949	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.0	g/10 min	
190°C/5.0 kg	0.40	g/10 min	

Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	> 400	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	25.0	MPa	
Break	30.0	MPa	
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	1000	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ISO 306/A
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 215	°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

