

# ALCUDIA® HDPE 45060-UV

High Density Polyethylene  
REPSOL

Message:

ALCUDIA® 45060UV 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 for oils and dangerous goods. 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) and impact resistance, so it's recommended to IBC tanks. It is useful for hazardous goods packaging according SKZ test certificate 45833/01

TYPICAL APPLICATIONS

IBC tanks

High capacity containers

Automotive fuel tanks

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 Impact Resistance		
	Heat Stabilized		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Blow Molding Applications		
	Containers		
	Fuel Tanks		
	Industrial Applications		
	Industrial Tanks		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.945	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	6.0	g/10 min	
190°C/5.0 kg	0.31	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	> 600	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	35.0	MPa	
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	1000	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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#### Recommended distributors for this material

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