

ALCUDIA® High density polyethylene



Chemicals

HDPE ALCUDIA® 45060UV

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.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 5.0 kg)	0.306	g/10 min	ISO 1133
Melt Flow Rate (190°C, 21.6 kg)	6.0	g/10 min	ISO 1133
Density at 23°C	945	kg/m ³	ISO 1183
Mechanical			
Tensile Strength at Break	35	MPa	ISO 527-2
Tensile Strain at Break	800	%	ISO 527-2
Tensile Strength at Yield	25	MPa	ISO 527-2
Flexural modulus of elasticity	1000	MPa	ISO 178
Other			
Vicat Softening Temperature (10 N)	128	°C	ISO 306
Shore Hardness D	65	°	ISO 306
Environmental Stress Cracking Resistance (F50)	> 600	h	ASTM D-1693(1)

(1) 10% Igepal, 50°C

ALCUDIA® 45060UV complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ALCUDIA® 45060UV should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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