Alcudia® High density polyethylene

Chemicals Technical data sheet

REPSOL

HDPE ALCUDIA® 47100

The high density polyethylene ALCUDIA® 47100 is a hexene copolymer of high molecular weight especially apt for the extrusion pipe for protecting cable conduits. Also it can be used as base polymer for identification stripes compound. This product is supplied in natural colour but they can be easily coloured with pigments steady at processing temperature, using dry-colouring or masterbatch techniques.

TYPICAL APPLICATIONS

- Pipe for protecting cable conduits.
- Base polymer for identification stripes compound.

Recommended melt temperature range 190 - 210 ºC. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190ºC, 21.6 kg)	10	g/10 min	ISO 1133
Melt Flow Rate (190ºC, 5 kg)	0,50	g/10 min	ISO 1133
Melt Flow Rate (190ºC, 2.16 kg)	0.11	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
Elongation at Break	800	%	ISO 527-2
Flexural modulus of elasticity	700	MPa	ISO 178
Others			
ESCR (F50) (Igepal 10%)	> 1000	h	ASTM D-1693
Brittleness temperature	< -70	°C	ASTM D-746
Vicat Softening temperature (10 N)	126	ºC	ISO 306
Shore Hardness D	60	-	ISO 868

ALCUDIA® 47100 high density polyethylene 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® 47100 high density polyethylene should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60 ºC 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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Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles. Madrid
Tel. +34 91 753 86 00
atd_poliolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com