Technical data sheet Chemicals

HDPE REPSOL ALCUDIA 5703A

The high density polyethylene REPSOL ALCUDIA 5703A is a homopolymer of medium molecular weight specially intended for extrusion of mono and doubled wall corrugated drainage and sewage pipes. 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. The REPSOL ALCUDIA 5703A has an excellent balance between rigidity and others properties as the impact strength.

Applications

- Structured doubled wall without pressure pipes for underground drainage and sewage.
- Mono and doubled wall corrugated pipes for protecting cables.

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

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190ºC, 5 kg)	1.50	g/10 min	ISO 1133
Melt Flow Rate (190ºC, 2.16 kg)	0.32	g/10 min	ISO 1133
Density at 23°C	958	kg/m^3	ISO 1183
Mechanical			
Tensile Strength at Break	30	MPa	ISO 527-2
Elongation at Break	> 700	%	ISO 527-2
Flexural modulus of elasticity	1550	MPa	ISO 178
Others			
ESCR (F50) (Igepal 10%)	> 15	h	ASTM D-1693
Brittleness temperature	< -70	°C	ASTM D-746

REPSOL ALCUDIA 5703A high density polyethylene complies with the European Directives regarding materials intended for contact with foodstuffs. The product mentioned herein is not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

Storage

REPSOL ALCUDIA 5703A high density polyethylene should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation 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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