TECHNICAL DATA SHEET

Repsol ALCUDIA 5606T

The high density polyethylene REPSOL ALCUDIA 5606T is a homopolymer of medium molecular weight. Due to its good processability characteristics is specially intended for extrusion of doubled 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.

Applications:

- Structued 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:

Properties	Value	Unit	Test Method
GENERAL			
Melt flow rate (190°C, 2.16kg)	0.6	g/10 min	ISO 1133
Melt flow rate (190°C, 5kg)	2	g/10 min	ISO 1133
Melt flow rate (190°C, 21.6kg)	40	g/10 min	ISO 1133
Density at 23 °C	956	kg/m3	ISO 1183
MECHANICAL			
Tensile Strength at Break	28	MPa	ISO 527-2
Elongation at Break	700	%	ISO 527-2
Flexural modulus of elasticity	1400	MPa	ISO 178
OTHERS			
ESCR (F50) (Igepal at 10%)	>15	h	ASTM D-1693
Brittleness temperature	<-70	ºC	ASTM D-746

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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Storage:

The grade REPSOL ALCUDIA 5606T 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.

Disclaimer:

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

Related documents:

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet.
- Statement on compliance with food contact regulations.

Recommended consumption period: 12 months from the date of delivery to the customer.

March 2026

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