TECHNICAL DATA SHEET

Repsol Alcudia® M5206

REPSOL ALCUDIA M5206 is a low melt flow rate high density polyethylene with narrow molecular weight distribution. It offers good processing properties for production of monofilaments with very high tensile strength at break.

Applications:

REPSOL ALCUDIA M5206 gives very high tenacity monofilaments designed for top products of technical applications:

- Fishing nets.
- Ropes.

Recommended melt temperature range from 210 to 240°C. Processing conditions should be optimized for each production line.

Properties:

Properties	Value	Unit	Test Method
General			
Melt Flow Rate (190°C, 2.16 kg)	0.60	g/10 min	ISO 1133
Melt Flow Rate (190°C, 21.6 kg)	18	g/10 min	ISO 1133
Density at 23°C	952	kg/m^3	ISO 1183
Mechanical			
Tensile Strength at Yield	28	MPa	ISO 527-2
Tensile Strength at Break	40	MPa	ISO 527-2
Elongation at Yield	9	%	ISO 527-2
Elongation at break	1100	%	ISO 527-2
Flexural modulus of elasticity	1200	MPa	ISO 178
Procesing guidelines			
Temperature	180-240	°C	
Stretching Ratio	8-12		

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.

Technical Service & Development:
Tel. +34 91 753 86 00
ATD_Polimeros@repsol.com

Headquarters
Méndez Álvaro, 44
28045 Madrid
España
www.repsol.com

Customer Care
CustomerCare.materials@repsol.com

TECHNICAL DATA SHEET

Storage:

REPSOL ALCUDIA M5206 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.

April 2026

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.

Technical Service & Development:
Tel. +34 91 753 86 00
ATD_Polimeros@repsol.com

Headquarters
Méndez Álvaro, 44
28045 Madrid
España
www.repsol.com

Customer Care
CustomerCare.materials@repsol.com

Manufacturer website: https://www.repsol.com/en/products-and-services/chemicals/