

Alcudia® Low density polyethylene

Chemicals

Technical data sheet



ALCUDIA® PE019

ALCUDIA® PE019 is a low density polyethylene grade of high fluidity intended for those injection moulding applications in which toughness and good flow properties are required. Its formulation does not contain additives.

TYPICAL APPLICATIONS

Due to its good properties balance, ALCUDIA® PE019 is a very versatile grade and is suitable for articles of very diverse sizes:

- Industrial parts and components.
- Caps and closures.
- Toys.

Recommended melt temperature range from 180 to 230°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190 °C; 2.16 kg)	20	g/10 min	ISO 1133
Density	919	kg/m ³	ISO 1183
Mechanical			
Flexural Modulus	150	MPa	ISO 178
Tensile strength at break	9	MPa	ISO 527-2
Tensile strain at break	375	%	ISO 527-2
Thermal			
Vicat Softening Temperature (10 N)	80	°C	ISO 306
Others			
Shore Hardness	47	D Scale	ISO 868

ALCUDIA® PE019 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® PE019 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.

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles, Madrid
Tel. +34 91 753 86 00
atd_poliiolefinas@repsol.com

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

Customer Care:
sacrq@repsol.com