

**REPSOL  
YPF**



**ALCUDIA®  
LD POLYETHYLENE**

## LDPE ALCUDIA® PE-019

**ALCUDIA® PE-019** is a low density polyethylene grade, produced by high pressure autoclave technology, for injection moulding applications due to low viscosity. This material offers a good balance among easy processability and stiffness. It does not contain any additives.

### TYPICAL APPLICATIONS

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

It is easy to process with standard injection moulding machines in a wide range of temperatures (180 – 240°C) depending on wall thickness, geometrical shape of the piece and other design parameters. To be processed with higher temperatures, residence time within barrel should be as short as possible to avoid the degradation of the material that could be the origin of harmful quality and, even, corrosion in mould and machine. Moulding parameters should be intended to reduce residual stresses that can promote internal cracks or the failure of the article.

PROPERTIES	TEST METHOD	UNITS	VALUE
<b>General</b>			
Melt Flow Rate (190 °C; 2.16 kg)	ISO 1133	g/10 min	20
Density at 23°C	ISO 1183	kg/m <sup>3</sup>	919
Vicat softening temperature (cond. A, 10 N)	ISO 306	°C	80
Shore D hardness	ISO 868	-	47
<b>Mechanical</b> (Compression moulded specimens)			
Tensile modulus	ISO 527-2	MPa	150
Tensile stress at break	ISO 527-2	MPa	9
Elongation at break	ISO 527-2	%	375

**NB:** values shown are averages and should not be taken as product specifications. They are obtained from standard specimens conditioned according to ISO methods.

**Alcudia<sup>0</sup> PE 019** complies with the FDA regulations and European Union Directives regarding contact with foodstuffs. Further details can be supplied on request.

### STORAGE

**Alcudia<sup>0</sup> PE 019** should be stored in a dry atmosphere at temperatures below 60 °C, paved, drained and not flooded area and protected from UV radiation. Storage under improper conditions may initiate degradation processes, negatively influencing processability, properties and visual aspect of transformed article.

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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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