

ALCUDIA® LDPE PE-017

Low Density Polyethylene

REPSOL

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

ALCUDIA® PE017 is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for extrusion coating and injection moulding applications. This material offers a good balance between easy processability and stiffness. It does not contain any additives.

TYPICAL APPLICATIONS

- Extrusion coating.
- Injection moulding.

Recommended melt temperature range for extrusion coating from 275 to 330°C. Processing conditions should be optimised for each production line.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• REPSOL
Availability	• Europe • North America
Features	• Additive Free • Good Processability • Food Contact Acceptable • Good Stiffness
Uses	• Coating Applications
Agency Ratings	• EU Food Contact, Unspecified Rating
Processing Method	• Extrusion Coating • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°F (23°C))	0.919 g/cm ³	0.919 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.5 g/10 min	8.5 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Break)	1450 psi	10.0 MPa	ISO 527-2
Tensile Strain (Break)	500 %	500 %	ISO 527-2
Flexural Modulus	23200 psi	160 MPa	ISO 178

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D)	46	46	ISO 868

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	187 °F	86.0 °C	ISO 306/A

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	527 to 626 °F	275 to 330 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

