

Alcudia® High density polyethylene

Chemicals

Technical data sheet



HDPE ALCUDIA® TR156

DESCRIPTION

ALCUDIA® TR156 is a high density polyethylene film grade, which combines superior physical properties with excellent processability. Due to high density, the material properties are best utilised by processing at HDPE conditions. Film made of ALCUDIA® TR-156 has good strength, high stiffness, impact and balanced tear resistance. It contains antioxidant additives.

APPLICATIONS

- Carrier bags.
- Industrial liners
- Paper lamination films.

ALCUDIA® TR-156 is intended for high neck extrusion on HDPE film extruders. The material will provide optimal performance in extrusion and mechanical properties.

Recommended extrusion conditions are flat temperature profile with a melt temperature between 210 and 230°C.

Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 5kg)	0.3	g/10 min	ISO 1133
Melt Flow Rate (190°C, 21.6kg)	9	g/10 min	ISO 1133
Density at 23°C	956	kg/m ³	ISO 1183
Film ⁽¹⁾			
Dart drop (F ₅₀)	350	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	20 / 30	cN	ISO 6383-2
Tensile stress at break (MD/TD)	50 / 55	MPa	ISO 527-3
Elongation at break (MD/TD)	250 / 300	%	ISO 527-3
Other			
Vicat softening temperature (load 10 N)	127	°C	ISO 306
Melting temperature	133	°C	ISO 11357-3

(1) Film properties are measured on a 15 µm film sample produced in a φ65 mm extruder, die 160 x 1,5mm, BUR = 4:1, neck = 8 x die diameter.

ALCUDIA® TR156 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.

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

ALCUDIA[®] TR156 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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