

ALCUDIA® HDPE TR-156

High Density Polyethylene
REPSOL

Message:

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.

TYPICAL 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.

General Information			
Additive	Antioxidation		
Features	Rigid, good		
	Antioxidation		
	Impact resistance, good		
	Workability, good		
	Good strength		
	Good tear strength		
	Compliance of Food Exposure		
Uses	Films		
	Laminate		
	Lining		
	Bags		
	Industrial application		
Agency Ratings	European food contact, not rated		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.956	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	ISO 1133
190°C/5.0 kg	9.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
Tensile Stress			ISO 527-3
MD: Broken, 15 µm, blown film	50.0	MPa	ISO 527-3

TD: Broken, 15 µm, blown film	55.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 15 µm, blown film	250	%	ISO 527-3
TD: Broken, 15 µm, blown film	300	%	ISO 527-3
Dart Drop Impact (15 µm, Blown Film)	350	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 15 µm, blown film	0.20	N	ISO 6383-2
TD: 15 µm, blown film	0.30	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature	133	°C	ISO 11357-3

Additional Information

Data taken from 15 µm film sample produced in a 65 mm extruder, die 160 x 1,5mm, BUR = 4:1, neck = 8 x die diameter.

Extrusion	Nominal Value	Unit
Melt Temperature	210 - 230	°C

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