

ALCUDIA® HDPE TR-131

High Density Polyethylene
REPSOL

Message:

ALCUDIA® TR-131 is a high molecular weight hexene copolymer, especially intended for geomembrane extrusion. This material offers easy processability, excellent mechanical properties, good sealing characteristics and high stress crack resistance. It contains antioxidant additive.

TYPICAL APPLICATIONS

Waterproof sheets: rubbish damp, water damp

Recommended melt temperature range from 200 to 230°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Antioxidation		
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	hexene comonomer		
	Antioxidation		
	Workability, good		
	Good heat sealability		
	Compliance of Food Exposure		
Uses	Geo Membranes		
	Sheet		
Agency Ratings	European food contact, not rated		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.938	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	18	g/10 min	ISO 1133
190°C/5.0 kg	0.75	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1500	µm	
Tensile Stress			ISO 527-3
MD: Yield, 1500 µm, cast film	19.0	MPa	ISO 527-3
TD: Yield, 1500 µm, cast film	19.0	MPa	ISO 527-3
MD: Fracture, 1500 µm, cast film	31.0	MPa	ISO 527-3
TD: Fracture, 1500 µm, cast film	33.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture, 1500 µm, cast film	750	%	ISO 527-3
TD: Fracture, 1500 µm, cast film	850	%	ISO 527-3
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ISO 306/A

Additional Information	Nominal Value	Unit	Test Method
Notched Constant Tensile Load (1.50 mm) 1	> 12.5	day	ASTM D5397
Tear Strength ²			UNE 53158
MD : 1.50 mm	150.0	kN/m	UNE 53158
TD : 1.50 mm	140.0	kN/m	UNE 53158
Data taken from 1.5 mm thickness sheet with 2.4% of carbon black cast film extrusion.			
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 230	°C	
NOTE			
1.	Cast Film		
2.	Cast Film		

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Recommended distributors for this material

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