ALCUDIA® LDPE TR-135

Medium Density Polyethylene

REPSOL

Message:

ALCUDIA® TR-135 natural compound is an hexene copolymer of high molecular weight especially apt for the extrusion of pipe.
Because other good mechanical properties and their characteristics, the polyethylene natural compound
ALCUDIA® TR-135, is designed to produce pipe. It has the antioxidant package enough for the extrusion process.
This product is supplied in natural colour but they can be easily coloured with pigments steady at processing temperature, using dry-colouring or masterbatch techniques.
ALCUDIA® TR-135 is a medium density polyethylene grade, high molecular weight hexene copolymer, especially intended for film extrusion. This material offers easy processability into films with excellent mechanical properties, good sealing characteristics and high stress crack resistance. It contains antioxidant additives.
TYPICAL APPLICATIONS
Carrier bags.
Refuse sacks.
Waterproof sheets.
Recommended melt temperature range from 190 to 220°C. Processing conditions should be optimised for each production line.

General Information	
Additive	Antioxidation
Features	High ESCR (Stress Cracking Resistance) High molecular weight Copolymer Antioxidation Compliance of Food Exposure
Uses	Films Bags Piping system Sheet
Agency Ratings	European food contact, not rated
Appearance	Natural color
Forms	Particle
Processing Method	Film extrusion Pipeline extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.938	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.12	g/10 min	ISO 1133
190°C/21.6 kg	12	g/10 min	ISO 1133
190°C/5.0 kg	0.60	g/10 min	ISO 1133

Environmental Stress-Cracking Resistance (10% Antarox CO-630, F50)	> 4000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	20.0	MPa	ASTM D638
Fracture	30.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	13	%	ASTM D638
Fracture	800	%	ASTM D638
Flexural Modulus	700	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	20	µm	
Tensile Stress			ISO 527-3
MD: Yield, 1500 µm, cast film	18.0	MPa	ISO 527-3
TD: Yield, 1500 µm, cast film	20.0	MPa	ISO 527-3
MD: 1500 µm, cast film	33.0	MPa	ISO 527-3
TD: 1500 µm, cast film	35.0	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	900	%	ISO 527-3
Dart Drop Impact (20 µm, Blown Film)	120	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 20 µm, blown film	0.20	N	ISO 6383-2
TD: 20 µm, blown film	5.8	N	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-118	°C	ASTM D746
Vicat Softening Temperature			
--	126	°C	ASTM D1525 [1]
--	115	°C	ISO 306/A
Melting Temperature	133	°C	ISO 11357-3
Additional Information			
Blown film data taken from 20µm film with a blow up ratio of 3:1 and a frost line height of 70 cm.			
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	175 - 195	°C	
Cylinder Zone 2 Temp.	180 - 200	°C	
Cylinder Zone 3 Temp.	185 - 205	°C	
Cylinder Zone 4 Temp.	190 - 210	°C	
Cylinder Zone 5 Temp.	190 - 210	°C	
Melt Temperature	195 - 215	°C	
NOTE			

1.	速率 A (50°C/h)

Recommended distributors for this material

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