Clearflex® H&T; LGH 108

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T LGH 108 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants and processing aid, suitable for blown film extrusion.

Films obtained from Clearflex H&T LGH 108 show excellent optical properties, a wide sealing window, both hot tack and heat seal, together with a low sealing initiation temperature (S.I.T.) and outstanding impact, puncture and Elmendorf tear resistance. Main Application

Clearflex H&T LGH 108, for its overall characteristics, is the right choice for packaging film applications, bioriented film requiring superior mechanical and optical properties. Moreover, the excellent sealability behaviour together with low gel content makes it ideal for lamination film production.

Additive Antioxidant Processing Aid Features Antioxidant Broad Seal Range Copolymer Copolymer Food Contact Acceptable Good Tear Strength Good Tear Strength High Impact Resistance High Impact Resistance Low Density Low Gel Low Temperature Heat Sealability Octene Comonomer Opticals Puncture Resistant Uses Bi-axially Oriented Film Film Laminates Againg Sealaging Agency Ratings EU Food Contact, Unspecified Rating Forms Pellets Processing Method Blown Film Physicad Nominal Value Density 0,917 g/cm ³ 150 1183	General Information				
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Processing Method Blown Film Physical Nominal Value Unit Test Method	Agency Ratings	EU Food Contact, Unspecif	EU Food Contact, Unspecified Rating		
Physical Nominal Value Unit Test Method	Forms	Pellets			
	Processing Method	Blown Film			
Density 0.917 g/cm ³ ISO 1183	Physical	Nominal Value	Unit	Test Method	
	Density	0.917	g/cm³	ISO 1183	

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Film Thickness - Recommended / Available	10 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 25 µm, Blown Film	160	MPa	
1% Secant, TD : 25 µm, Blown Film	170	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	9.00	MPa	
TD : Yield, 25 μm, Blown Film	9.00	MPa	
MD : Break, 25 µm, Blown Film	45.0	MPa	
TD : Break, 25 µm, Blown Film	45.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	450	%	
TD : Break, 25 µm, Blown Film	700	%	
Dart Drop Impact ¹ (25 µm, Blown Film)	400	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 µm	130.0	kN/m	
TD : 25.0 μm	210.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	102	°C	ISO 306/A
Melting Temperature	117	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	60		ASTM D2457
Haze (25.0 µm, Blown Film)	9.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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