

Clearflex® H&T; LGH 138

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T LGH 138 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants, slip agent, antiblocking and processing aid, suitable for blown film extrusion.

Films obtained from Clearflex H&T LGH 138 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 138, for its overall characteristics, is the right choice for packaging film applications requiring superior mechanical and optical properties. The excellent sealability behaviour together with low gel content makes it ideal for lamination film production.

General Information	
Additive	Antiblock Antioxidant Processing Aid Slip
Features	Antiblocking Antioxidant Broad Seal Range Copolymer Food Contact Acceptable Good Heat Seal Good Processability Good Tear Strength High Impact Resistance Hot Tack Strength Low Density Low Gel Low Temperature Heat Sealability Octene Comonomer Opticals Puncture Resistant Slip
Uses	Film Laminates Packaging
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets

Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.917	g/cm ³	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)	0.11		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	40.0	MPa	
TD : Break, 25 µm, Blown Film	40.0	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)	350	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 µm	110.0	kN/m	
TD : 25.0 µm	200.0	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)	55		ASTM D2457
Haze (25.0 µm, Blown Film)	11	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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