

Clearflex® H&T; LFH 238

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T LFH 238 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants and processing aid, suitable for blown film extrusion. It contains slip and antiblocking agents.

Films obtained from Clearflex H&T LFH 238 have excellent optical properties (haze and gloss), wide sealing temperature window, together with optimal sealing behaviour, outstanding tear, impact and puncture resistance. Its properties make Clearflex H&T LFH 238 the right chois for top end performance applications.

Main Application

Due to its excellent sealing properties, Clearflex H&T LFH 238 is recommended for packaging of food and edible fats and for applications requiring a superior sealing performance. Its very low gel content makes it ideal for lamination.

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

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.12		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	200	MPa	
1% Secant, TD : 25 μm, Blown Film	250	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 μm, Blown Film	10.0	MPa	
TD : Yield, 25 μm, Blown Film	10.0	MPa	
MD : Break, 25 μm, Blown Film	50.0	MPa	
TD : Break, 25 μm, Blown Film	45.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 μm, Blown Film	600	%	
TD : Break, 25 μm, Blown Film	750	%	
Dart Drop Impact ¹ (25 μm, Blown Film)	250	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 μm	180.0	kN/m	
TD : 25.0 μm	250.0	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	119	°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)	11	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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