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.

General Information	
Additive	Antioxidant Processing Aid
Features	Antioxidant Broad Seal Range Copolymer Food Contact Acceptable Good Heat Seal Good Tear Strength High Impact Resistance Hot Tack Strength Low Density Low Gel Low Temperature Heat Sealability Octene Comonomer Opticals Puncture Resistant
Uses	Bi-axially Oriented Film 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/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		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China