Clearflex® H&T; FGH 196

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T FGH 196 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants and processing aid, suitable for blown film extrusion.
Films obtained from Clearflex H&T FGH 196 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 FGH 196, for its overall characteristics, is the right choice for all applications, like silage stretch film, low thickness high clarity packaging film, requiring a superior mechanical strength. Moreover, the excellent sealability behaviour 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 Hexene Comonomer High Impact Resistance High Strength Low Density Low Temperature Heat Sealability Opticals Puncture Resistant
Uses	Film Laminates Packaging Stretch Wrap
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blown Film

Physical	Nominal Value	Unit	Test Method
Density	0.916	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	170	MPa	
1% Secant, TD : 25 µm, Blown Film	200	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	8.00	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	35.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	500	%	
TD : Break, 25 µm, Blown Film	700	%	
Dart Drop Impact [1] (25 µm, Blown Film)	390	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 25.0 µm	160.0	kN/m	
TD : 25.0 µm	260.0	kN/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	95.0	°C	ISO 306/A
Melting Temperature	123	°C	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 25.0 µm, Blown Film)	70		ASTM D2457
Haze (25.0 µm, Blown Film)	7.0	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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