Clearflex® H&T FGH B3

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T FGH B3 is a linear low density polyethylene, made by proprietary enhanced Z-N catalyst, suitable for blown film technology. The resin, containing antioxidants slip agent and antiblock, is characterized by a very low density and high molecular weight. Compared to std Clearflex VLDPE grades, Clearflex H&T FGH B3 offers lower seal initiation temperature, excellent optical properties and mechanical performances.
Main Applications
Clearflex H&T FGH B3 is recommended to produce blown film requiring a combination of optical properties, puncture resistance and impact strength and very good sealability.
Clearflex H&T FGH B3 is also recommended in the production of Lamination film.

General Information			
Additive	Anti-caking agent Antioxidation slip agent		
Features	Low temperature heat sealability High molecular weight smoothness Optical Perforation resistance Anti-caking property Antioxidation Impact resistance, good Heat sealable Compliance of Food Exposure		
Uses	Blown Film Films Laminate		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.911	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 (Dynamic, Blown Film)	> 0.50		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**

Film Thickness - Recommended / Available	10 to 50 µm		
Tensile Modulus			ISO 527-3
1% sectioning, MD: Blown film	140	MPa	ISO 527-3
1% sectioning, TD: Blown film	135	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, blow film	5.00	MPa	ISO 527-3
TD: yield, blow film	6.00	MPa	ISO 527-3
MD: fracture, blow film	31.0	MPa	ISO 527-3
TD: fracture, blow film	29.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: fracture, blow film	460	%	ISO 527-3
TD: fracture, blow film	660	%	ISO 527-3
Dart Drop Impact (Blown Film)	270	g	ISO 7765-1/A
Elmendorf Tear Strength [1]			ISO 6383-2
MD	75.0	kN/m	ISO 6383-2
TD	115.0	kN/m	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	85.0	°C	ISO 306/A
Melting Temperature	110	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, Blown Film)	72		ASTM D2457
Haze (Blown Film)	4.0	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	200 - 230	°C	
NOTE			
1.	Blown Film		

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