CLEARFLEX ® H&T LFH 208

LLDPE

Linear low density polyethylene

Clearflex H&T LFH 208 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 LFH 208 have excellent optical properties (haze and gloss), wide sealing temperature window, together with optimal sealing resistance, outstanding tear, impact and puncture resistance. Its properties make Clearflex H&T LFH 208 the right choice for top end performance applications.

Main applications

Due to its excellent sealing behaviour, Clearflex H&T LFH 208 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. Clearflex H&T LFH 208 is also recommended for silage stretch film production, due to its outstanding mechanical properties.

Main properties

Resin Properties	Test method	Unit	Value
Melt Flow Rate (190 °C/ 2.16 kg)	ISO 1133	g/10min	0.75
Density	ISO 1183	g/cm³	0.920
Melting point	Internal method	°C	119
Brittleness point	ASTM D 746	°C	< - 70
Vicat softening point (1 kg)	ISO 306/A	°C	102

Film Properties *	Test method		Unit	Value
Tensile stress at yield	ISO 527-3	MD	MPa	10
	ISO 527-3	TD	MPa	10
Tensile strenght at break	ISO 527-3	MD	MPa	50
	ISO 527-3	TD	MPa	45
Elongation at break	ISO 527-3	MD	%	600
	ISO 527-3	TD	%	750
1% Secant modulus	ISO 527-3	MD	MPa	200
	ISO 527-3	TD	MPa	250
Elmendorf tear resistance	ISO 6383-2	MD	N/mm	180
	ISO 6383-2	TD	N/mm	250
Impact resistance F50 (Dart Drop Test)	ISO 7765-1		g	250
Dynamic coefficient of friction (COF)	ISO 8295			> 0.5
Haze	ISO 14782		%	9
Gloss, 45°	ASTM D 2457		%	60
Recommended film thickness			micron	10 ÷ 50

(*) Typical value for a film extruded between 190°-230°C, with BUR 2.5, thickness 25 µm. Actual properties are typical and may vary depending upon operating conditions and additive package.

Processing conditions

Clearflex H&T LFH 208 is easily processable using blown film technology. Melt temperature should be between 190°C and 230°C. Clearflex H&T LFH 208 can be extruded at thickness below 15 µm.

Storage and handling

Clearflex H&T LFH 208 is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping be practised throughout your facility.
Stored in an airy and dry room, at temperatures between 20°C and 30°C, with no direct sunlight, the shelf life is about 18 months. However, before using this product, read and understand the relevant POLIMERI EUROPA Safety Data Sheet.

Availability

Contact the POLIMERI EUROPA sales office nearest to you regarding availability and your specific application requirements.

Food contact status

Clearflex H&T LFH 208 complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

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