



versalis

# Technical Data Sheet

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## 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 Application

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

<b>Resin Properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Method</b>
Melt Flow Rate (190 °C/2.16 kg)	0.75	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	-	g/10min	ISO 1133
Melt Flow Rate (190 °C/21.6 kg)	-	g/10min	ISO 1133
Density	0.920	g/cm <sup>3</sup>	ISO 1183
Melting Point	119	°C	Internal method
Brittleness temperature	< - 70	°C	ASTM D 746
Vicat softening point (1 kg)	102	°C	ISO 306/A

  

<b>Film Properties *</b>	<b>Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile stress at yield MD	10	MPa	ISO 527-3
Tensile stress at yield TD	10	MPa	ISO 527-3
Tensile strength at break MD	50	MPa	ISO 527-3
Tensile strength at break TD	45	MPa	ISO 527-3
Elongation at break MD	600	%	ISO 527-3
Elongation at break TD	750	%	ISO 527-3
1% Secant modulus MD	200	MPa	ISO 527-3
1% Secant modulus TD	250	MPa	ISO 527-3
Elmendorf tear resistance MD	180	N/mm	ISO 6383-2
Elmendorf tear resistance TD	250	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	250	g	ISO 7765-1
Dynamic coefficient of friction (COF)	> 0.5	-	ISO 8295
Haze	9	%	ISO 14782
Gloss, 45°	60	%	ASTM D 2480
Recommended film thickness	10 ÷ 50	micron	-

\* 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 notes

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.

The product should be stored in dry conditions at temperatures below 50°C and protected from sunlight.

Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

## Availability

Contact the Versalis 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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### TECHNICAL SERVICE

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**IMPORTANT:** please consult the relevant safety data sheet for more detailed information. The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted with respect to the use of such information and data.

Versalis is available to provide the guaranteed values for each product on demand.