



CLEARFLEX® CL D0 BCA

VLDPE
Very low-density polyethylene bio circular attributed



SUSTAINABILITY

The "bio circular attributed" product Clearflex CL D0 BCA is a highly sustainable VLDPE produced using bionafta from renewable raw materials together with traditional raw materials. In order to attribute the sustainable feedstock component to the final product, Versalis applies the Mass Balance approach, a recognized methodology that allows to trace the flow of materials along the value chain and to assign the sustainability characteristic of the raw material to the final product on a documentary basis.

Clearflex CL D0 BCA provides the same chemical composition and physical-mechanical performance of the traditional grade, in addition is accompanied by a sustainability declaration that certifies the share of bio attributed product. It is a linear low-density polyethylene with antioxidants characterised by a very low density and suitable for cast film technology. The production of Clearflex CL D0 BCA allows to contribute to the circular economy, since the bionafta used derives from waste from industrial processing of organic substances (e.g. used cooking oils).

MAIN PROPERTIES

Resin Properties	Value	Unit	Test method
Melt Flow Rate (190 °C/2.16 kg)	1	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	0.95	g/cm ³	ISO 1183
Melting Point	130	°C	Internal Method
Brittleness temperature	<-70	°C	ASTM D 746
Vicat softening point (1 kg)	200	°C	ISO 306/A
Film Properties *	Value	Unit	Test method
H ₁₀ (23°C)	10	MPa	ISO 527-3
H ₅ (23°C)	10	MPa	ISO 527-3
H ₁₀ (0°C)	10	MPa	ISO 527-3
H ₅ (0°C)	10	MPa	ISO 527-3
90° (23°C)	100	%	ISO 527-3
90° (0°C)	100	%	ISO 527-3
%GW (23°C)	10	MPa	ISO 527-3
%GW (0°C)	10	MPa	ISO 527-3
90° (23°C)	10	N/mm	ISO 6383-2
90° (0°C)	10	N/mm	ISO 6383-2
ad (23°C)	10	g	ISO 7765-1/A
8 (23°C)	>0.5	-	ISO 8295
<Un	10	%	ISO 14782
cg (0°)	10	%	ASTM D 2457
FW (23°C)	10 ± 50	micron	-

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JfmxUwXpJdcbcdUhpVcbXhpbgbUbxUXXhUWUfY

MAIN APPLICATIONS

Clearflex CL D0 BCA is recommended as cling agent in stretch film but it is also used for applications in which soft touch and flexibility are required, for the improvement of impact resistance when used as additive in blend with other polyolefins formulated with or without mineral fillers.

PROCESSING NOTES

Clearflex CL D0 BCA is easily processable using cast film technology. Melt temperature should be between 220°C and 270°C.

STORAGE AND HANDLING

Clearflex CL D0 BCA is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletized 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 should be practiced 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 odor generation, color 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 CL D0 BCA 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.

TECHNICAL MANAGEMENT POLYETHYLENE AND CLIENT RELATIONSHIP

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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

DISCLAIMER: it is the sole responsibility of the end-user to determine the safety, the regulatory compliance as well as the technical suitability of the product for the intended application. The product is not intended for use in medical devices and pharmaceutical applications; Versalis declines all responsibility and cannot be held liable in case of use in the above-mentioned applications.