

Provisional Technical data Sheet

VERSALIS REVIVE® (PE) 100 LC H

LLDPE/LDPE

VERSALIS REVIVE® PE 100 LC H is a LLDPE/LDPE-based polyethylene for cast-film and extrusion, containing 100% post-consumer plastic from commercial-industrial collection.

Main Applications

VERSALIS REVIVE® PE 100 LC H is indicated for the production of stretch film, where the color is neutral and particularly requested. Use in coextrusion is recommended in one or more internal layers and in a mixture with virgin polyethylene. The percentages of use and the thicknesses must be evaluated according to the final features of the application.

VERSALIS REVIVE® PE 100 LC H is not suitable for the production of articles and materials intended for direct food contact, the manufacture of toys or items for early childhood and for pharmaceutical, cosmetic and medical applications.

Proprietà Principali

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	2	g/10min	ISO 1133
Density	0.923	g/cm ³	ISO 1183
LLDPE content	80	%	DSC method
LDPE content	20	%	DSC method
PP content	-	%	DSC method
Color	Neutral	%	Visual method

Film Properties *	Value	Unit	Test Method
Tensile stress at yield MD	-	MPa	ISO 527-3
Tensile stress at yield TD	-	MPa	ISO 527-3
Tensile stress at break MD	24	MPa	ISO 527-3
Tensile stress at break TD	20	MPa	ISO 527-3
Elongation at break MD	500	%	ISO 527-3
Elongation at break TD	650	%	ISO 527-3
1% Secant modulus MD	110	MPa	ISO 527-3
1% Secant modulus TD	135	MPa	ISO 527-3
Elmendorf tear resistance MD	-	N/mm	ISO 6383-2
Elmendorf tear resistance TD	-	N/mm	ISO 6383-2
Impact resistance (Dart Drop Test)	95	g	ISO 7765-1
Dynamic coefficient of friction (COF)	-	-	ISO 8295
Haze	-	%	ISO 14782
Gloss, 45°	-	%	ASTM D 2457
Recommended film thickness	30	micron	-

(*) Typical properties of an extruded film 30 μm thickness, BUR 3 & Die gap 1.8mm. The properties of the film are to be understood as typical and may vary according to the transformation conditions and the additive package.

(**) Typical values



Processing notes

VERSALIS REVIVE® PE 100 LC H is suitable to be transformed on cast film lines, preferably in coextrusion, into one or more internal layers and in a mixture with virgin polyethylene. The suggested melt temperature range is from 220 °C to 270 °C. The percentages of use and the thicknesses must be evaluated according to the final characteristics of the application. If necessary, it is suggested to carry out a possible stove treatment of the granule or use suitable drying additives during the transformation.

Storage and Handling

VERSALIS REVIVE® PE 100 LC H is supplied in pellet form and may be conveyed and bulk fed through equipment designed for conventional pelletized polyethylene resin. As with all polymeric materials, it is necessary 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

For information about availability, please refer to your Versalis representative.

Conformity declaration status

The conformity declarations and the certifications are available upon request.

