



versalis

Provisional Technical Data Sheet

www.versalis.eni.com

info.polyethylene@versalis.eni.com

VERSALIS REVIVE® PE

COM75LF2

LDPE/LLDPE based compound

VERSALIS REVIVE® PE COM75LF2 is a LDPE/LLDPE based polyolefin compound containing 75% of post-consumer plastic from municipal waste separate collection, stabilizers and compatibilizers agents, allowing its use in high content technological applications.

Main Applications

COM75LF2 is indicated for the production of extruded packaging and manufactured products for which sustainability is a primary value. COM75LF2 is to be used preferably in co-extrusion, in one or more inner layers and in mix with virgin polyethylene for the production of secondary and tertiary packaging of industrial products and the production of tubes and various profiles. The percentages of use (up to 100%) and the thicknesses, must be evaluated according to the final characteristics of the application. The product is not suitable for the production of articles and materials intended for direct contact with food and pharmaceutical and/or medical applications.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	0.9	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	0.930**	g/cm ³	ISO 1183
Melting Point	125	°C	Internal method
Brittleness temperature	<- 70	°C	ASTM D 746
Vicat softening point (1 kg)	100	°C	ISO 306/A

Film Properties *	Value	Unit	Test Method
Tensile stress at yield MD	8	MPa	ISO 527-3
Tensile stress at yield TD	8	MPa	ISO 527-3
Tensile stress at break MD	17	MPa	ISO 527-3
Tensile stress at break TD	15	MPa	ISO 527-3
Elongation at break MD	430	%	ISO 527-3
Elongation at break TD	480	%	ISO 527-3
1% Secant modulus MD	215	MPa	ISO 527-3
1% Secant modulus TD	200	MPa	ISO 527-3
Elmendorf tear resistance MD	28	N/mm	ISO 6383-2
Elmendorf tear resistance TD	120	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	-	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	-	-	ISO 8295
Haze	-	%	ISO 14782
Gloss, 45°	-	%	ASTM D 2457
Recommended film thickness	40 ÷ 100	micron	-

(*) Typical properties of an extruded film 180 °C-210 °C, BUR 4 and thickness 50 µm. The properties of the film are to be understood as typical and may vary according to the transformation conditions and the additive package.

(**) Base resin density.

Processing notes

COM75LF2 can be easily processed with conventional blown film systems. The suggested melt temperature range is from 180°C to 210°C. Recommended thicknesses are from 40 to 100 micron.

Storage and Handling

COM75LF2 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.

Conformity declaration

Certificates of conformity are available on request.

TECHNICAL SERVICE

versalis S.p.A.
Piazza Boldrini, 1
20097 S.Donato Milanese, Italia
Tel. +39 02 520.32087
Fax +39 02 520.52052

Versalis International SA succursale française
Port 4531 Route des Dunes - BP 59
F-59279 Mardyck
Tel. : +3332823551

versalis S.p.A.
Via Taliercio, 14
46100 Mantova, Italia
Tel. +39 0376 305667
Fax +39 02 52043

HEADQUARTER

versalis S.p.A.
Piazza Boldrini, 1
20097 S.Donato Milanese, Italia
Tel. +39 02 520.32087
Fax +39 02 520.52052

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.

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