

Polyethylene

CWT100LG

Post-Consumer Recyclate

Accelerating Action
on Circularity

Description

CWT100LG is a transparent low gel low density polyethylene post-consumer recyclate (rLDPE) supplied in pellet form for high-end blown film applications. This material is an ideal LDPE used where sustainability and circularity matter. CWT100LG is a 100% post-consumer recyclate coming from commercial waste mainly.

Due to the nature of recyclates, some variation in colour can be observed between batches.

Cas No. 9002-88-4

Typical characteristics

CWT100LG can be described with following typical characteristics:

High transparency

Pellet shape: lenticular

Low gel level

Filtration: 100 µm

Low odour

Applications

CWT100LG is intended for following applications:

- Non food contact consumer packaging where transparency and toughness are key parameters
- High end collation shrink packaging
- Non-food contact primary packaging

Note: Minor quantity of BorShape™ LLDPE significantly boosts mechanical performances of CWT 100 LG helping convertors, brand owners and retailers meeting their sustainability goals without compromising key mechanical properties for similar packaging performance.

Physical properties

Property	Typical value *	Unit	Test method
Density	0.925	g/cm ³	ISO 1183
Melt flow rate (190 °C/2.16 kg)	0.5	g/10 min	ISO 1133-1
Bulk density	470	g/l	ISO 60
Moisture content ¹	≤ 0.1	%	

* Data should not be used for specification work

¹ internal method

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Film properties

Property	Typical value *	Unit	Test method
Tensile Modulus MD	230	MPa	ISO 527-3
Tensile Modulus TD	270	MPa	ISO 527-3
Tensile strength MD	19	MPa	ISO 527-3
Tensile strength TD	20	MPa	ISO 527-3
Tensile strain at break MD	360	%	ISO 527-3
Tensile strain at break TD	570	%	ISO 527-3
Tear resistance (Elmendorf) MD	2.0	N	ISO 6383-2
Tear resistance (Elmendorf) TD	4.6	N	ISO 6383-2
Dart drop	110	g	ISO 7765-1
Haze	25	%	ASTM D1003
Gloss 45°	28	GU	ASTM D2457

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Processing techniques

CWT100LG is easily processed on conventional extruders. Following parameters should be used as guideline:

Processing setting	Typical value/range
Melt temperature	160 - 190 °C

Due to differences in extrusion machine design the optimum temperature adjustments are individual and should be evaluated for each production line.

Packaging and storage

CWT100LG should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

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Disclaimer

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