

Post-Consumer Recyclate

Recleo™ PE S3008

Polyethylene



Accelerating Action  
on Circularity

Description

Recleo PE S3008 is a mixed-colored low density polyethylene post-consumer recyclate (rLDPE) supplied in pellet form for blown film applications. This product is an ideal LDPE used where sustainability and circularity matter. Recleo PE S3008 is a post-consumer recyclate including a large part of recycled post-consumer plastic waste coming from pre-sorted municipal (household) waste. It is part of the RecycClass certificate. Due to the nature of recyclates, some variation in color can be observed between batches.

Cas No. 9002-88-4

Typical characteristics

Mixed-colored

Filtration: 100 µm

Available in homogenized 24-ton truckloads

Applications

Recleo™ PE S3008 is intended for following applications:

- Garbage bags
- Construction films
- Industrial films

Physical properties

Property	Typical value *	Unit	Test method
Density	0.945	g/cm <sup>3</sup>	
MFR 190/2,16	0.7	g/10 min	
Moisture content	≤ 0.1	%	
Bulk density	500	g/l	

\* Data should not be used for specification work

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### Film properties

Property	Typical value *	Unit	Test method
Tensile Modulus MD	240	MPa	ISO 527-3
Tensile Modulus TD	265	MPa	ISO 527-3
Tensile strength MD	12	MPa	ISO 527-3
Tensile strength TD	12	MPa	ISO 527-3
Tensile strain at break MD	230	%	ISO 527-3
Tensile strain at break TD	410	%	ISO 527-3
Tear resistance - Elmendorf	1.3	N	ISO 6383-2
Tear resistance - Elmendorf	5.5	N	ISO 6383-2
Dart drop	35	g	ISO 7765-1

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Film properties measured on 40 µm thick blown film produced on 30 mm Collin extruder L/D = 30, die diameter 60 mm, blow up ratio (BUR) = 2.5:1, frost line height (FLH) = 2D.

### Processing techniques

Recleo PE S3008 is easily processed on conventional extruders. Following extrusion parameters should be used as guideline:

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

Due to differences in screw and die head designs the optimum temperature adjustments are individual and should be evaluated for each production line.

### Packaging and storage

Recleo™ PE S3008 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 odor generation and color changes and can have negative effects on the physical properties of this product. The shelf life is a maximum of one year after production. It can be extended after selected material properties are being retested to meet the product specifications. It is recommended to measure the moisture after longer storage periods prior to processing.

### 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

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