

## plastic materials • since 1987

PEBOlen

POLYETHYLENE COMPOUND

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# Curiosity

One plastic bottle can endure in water or on the ground for one thousand years.





100 watt light Bulbs turned on for 1 hour

USE Jess for PlayTic



recoveries 30kW/h

CO<sub>2</sub>

**PEBO** was amongst the first European companies to start producing compounds originating from recycled plastic.

Today **PEBO** continues its mission aimed at avoiding that a precious element such as plastic becomes a serious environmental hazard.

**PEBO** regenerates 50.000 tons of Polyethylene per year. This annual output strongly contributes to saving energy, reducing  $CO_2$  emission in the atmosphere and especially avoiding the phenomenon of plastic dispersion into the environment.

**PEBO** purchases waste plastic materials that come from the industrial sector and garbage collection. **PEBO** transforms the waste in "second life plastic raw materials" through a process of volumetric reduction and washing (using filtered water in a closed circuit). The material is compounded with the scope of obtaining a new material ready to be used for the manufacturing of industrial products.

# Recycling





**PEBO** was established in 1987 in Tuscany with the aim of producing the highest quality compound, starting from recycling plastic waste.

The company sits on a 30.000  $\ensuremath{m^2}$  site and employs more than 50 people that run:

- Advanced compounding lines
- Integrated shredding, grinding and washing system
- Grinded scraps high technology washing line with a water decontamination system
- High Tech Laboratory
- Optical colour sorting machine

Thanks to our avant-garde laboratory, we are in a position to select and guarantee high quality compounds for extrusion & blow moulding and for special application.

**PEBO** is equipped with machinery and instruments to become a 4.0 industry.

Experience, reliability and quality are the success of our company.





## Our company



## **Our new** machineries

**1.** Compounding line with pelletizer under water and stripping system (production capacity 2.500 kg/hr)

2. Optical colour sorting machine

**3.** Robotic palletizer: it is able to handle 25 kg bags and big bags (capacity:10.000 kg/hr)



### Material delivery options

Resin compound can be delivered in three options:

- 25 kg bags on 110 × 130 cm pallets
- 1000 -1200 kg Big Bags on 100 × 100 cm pallets
- 25,000 kg bulk



Give plastic a new life: **let's** revalue it

R

The raw materials used for the production of our compounds come from:

- Industrial plastic waste
- Recycled post-consumer materials
- Off-spec. virgin polyethylene resin
- Chemical additives

Our compound production capacity is 50.000 ton per year. **PEBO** has equipped all the production lines with the latest technology filters that guarantees a filtration of the material up to 80 micron.

### The production cycle consists in six main stages:



silos

mixer





3. Blending







# Our production









### The **quality** of the detail

1.14

The Laboratory is the heart of **PEBO** success. Thanks to its sophisticated technology and skilled technicians, **PEBO** guarantees a constant quality control of the production processes and of the compound, from the first stage of production up to the final shipment. The secret of **PEBO** quality is a fine selection of raw materials and its accurate blending before extrusion.

### testing lab

TYPE OF TEST	SCOPE
<b>M.F.I.</b> Method ISO 1133 Unit g/10min	Certifies the fluidity of the material
<b>DENSITY</b> (g/cm <sup>3</sup> )	Certifies the density of the materials. The product can be classified as either high or low density
<b>D.S.C.</b> (min)	To identify contamination of different materials: for example percentage of polypropylene
<b>0.I.T.</b> (min)	Resistance to oxidation aging
HUMIDITY (ppm)	To check the presence of water
<b>TGA</b> Carbon black content (%) Inorganic fillers (%)	To check the percentage of carbon black content and inorganic fillers
FTIR	To identify the type of plastic

Lab analysis are carried out on resin compound before shipment and quality certificates are supplied with shipping documents.

## **Our quality**

**.** ..



FTIR spectrometer



#### Karl fisher coulometer



DSC differential scanning calorimetry



Modular melt flow index tester







# Our compound

click on the notch

to access the section

 $(\bigcirc$ 

All our Polyethylene compounds are produced with the latest technologies: • Twin screw extruders · High precision gravimetric dosing systems · Advanced filtration technology • Stripping System UNI EN ISO 14001 n. 183 UNI EN ISO 9001 n. 841 REAU VERITAS **HDPE** Product certification extrusion line **EuCertPlast HDPE** 02 blow moulding line LDPE 3 Π extrusion line **CLIK HERE**  $(\bigcirc)$ 

### MORE THAN 30 YEARS OF EXPERIENCE



The compound that comes from our extrusion lines is the result of carefully selected, homogeneous, washed and filtered blends. Additives are blended in to enrich the compound. The low flow index and strict standardization process (before and after granulation) classify these as the most suitable materials for pipe extrusion.

Our range of materials is the response to different production and quality requirements (water, irrigation, sewage, drainage and telecommunication pipes). We can provide the most appropriate material for all types of pipe requirements.













### PEBOlen HDPE 80100

**COMPOSITION:** COLOR: **APPLICATION:** 

HIGH DENSITY POLYETHYLENE black high quality smooth pipes

PROPERTY	UNIT	VALUE	TEST METHOD		
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.08 - 0.18 0.35 - 0.70	ISO 1133 ISO 1133		
VOLUMETRIC MASS <sup>*</sup>	g/cm³	0.945 - 0.958	ISO 1183		
MELTING POINT	°/C	130 - 138	DSC		
CARBON BLACK*	%	2 - 2.5%	ISO 6964		
TENSILE STRAIN AT BREAK	%	> 450	ISO 527-1:2012		
TENSILE STRENGHT AT BREAK	Мра	19 - 22	ISO 527-1:2012		
0.I.T. 200°C*	minutes	> 20	ISO 11357-6		
HUMIDITY	ppm	< 600	Karl Fischer		
SMELL	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	slight traces in the formulations of the original products				
ASH, METALS	slight traces in the formulations of the original product				
PACKAGING	approx 1250 kg big	bag, tank truck, 25 kg bags	on pallet		

#### Product Notes:

Produced with post-industrial and off grade recycled materials, added with carbon black which increases its UV resistance and added with antioxidant which increases its resistance to oxidation.

Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.

LDPE EXTRUSION LINE







COMPOSITION: COLOR: APPLICATION: HIGH DENSITY POLYETHYLENE black high quality smooth pipes for telecommunication

PROPERTY	UNIT	VALUE	TEST METHOD		
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.08 - 0.18 0.35 - 0.70	ISO 1133 ISO 1133		
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.945 - 0.958	ISO 1183		
MELTING POINT	°/C	132 - 138	DSC		
CARBON BLACK*	%	2 - 2.5%	ISO 6964		
TENSILE STRAIN AT BREAK	%	> 450	ISO 527-1:2012		
TENSILE STRENGHT AT BREAK	Мра	18 - 21	ISO 527-1:2012		
0.I.T. 200°C*	minutes	> 20	ISO 11357-6		
HUMIDITY	ppm	< 600	Karl Fischer		
SMELL	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	slight traces in the formulations of the original products				
ASH, METALS	slight traces in the formulations of the original product				
PACKAGING	approx 1250 kg big bag, tank truck, 25 kg bags on pallet				

#### **Product Notes:**

Produced with post-industrial recycled materials, added with carbon black which increases its UV resistance and added with antioxidant which increases its resistance to oxidation.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations.

\* these parameters can be changed according to customers requests.

Not suitable for food contact.



### PEBOlen HDPE 80070

**COMPOSITION:** COLOR: **APPLICATION:** 

HIGH DENSITY POLYETHYLENE black smooth pipes for telecommunications, irrigation and other applications

PROPERTY	UNIT	VALUE	TEST METHOD			
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.08 - 0.18 0.35 - 0.70	ISO 1133 ISO 1133			
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.945 - 0.958	ISO 1183			
MELTING POINT	°/C	130 - 135	DSC			
CARBON BLACK*	%	2 - 2.5%	ISO 6964			
TENSILE STRAIN AT BREAK	%	> 350	ISO 527-1:2012			
TENSILE STRENGHT AT BREAK	Мра	17 - 21	ISO 527-1:2012			
0.I.T. 200°C*	minutes	> 20	ISO 11357-6			
HUMIDITY	ppm	< 600	Karl Fischer			
SMELL	typical regenerated more or less intens	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	%	PP < 2 %	DSC			
ASH, METALS	slight traces in the formulations of the original products					
PACKAGING	approx 1250 kg big	bag, tank truck, 25 kg bags	on pallet			

#### **Product Notes:**

Produced with post-industrial and post consumer recycled materials, added with carbon black, which increases its UV resistance and added with antioxidant which increases its resistance to oxidation.

Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.

LDPE EXTRUSION LINE





NEW!

COMPOSITION: COLOR: APPLICATION: HIGH DENSITY POLYETHYLENE black electric cable coating and steel pipe coating

PROPERTY	UNIT	VALUE	<b>TEST METHOD</b>			
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.15 - 0.4 0.6 - 1.2	ISO 1133 ISO 1133			
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.950 - 0.960	ISO 1183			
MELTING POINT	°/C	130 - 135	DSC			
CARBON BLACK*	%	2 - 2.5%	ISO 6964			
TENSILE STRAIN AT BREAK	%	> 350	ISO 527-1:2012			
TENSILE STRENGHT AT BREAK	Мра	18 -21	ISO 527-1:2012			
0.I.T. 200°C*	minutes	> 20	ISO 11357-6			
HUMIDITY	ppm	< 600	Karl Fischer			
SMELL	typical regenerated more or less intense	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	%	PP < 2 %	DSC			
ASH, METALS	slight traces in the formulations of the original products					
PACKAGING	approx 1250 kg big bag, tank truck, 25 kg bags on pallet					

#### **Product Notes:**

Produced with post-industrial recycled materials, added with carbon black which increases its UV resistance and added with antioxidant which increases its resistance to oxidation.

Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations.

\* these parameters can be changed according to customers requests.



### PEBOlen HDPE 8330 plus

**COMPOSITION:** COLOR: **APPLICATION:** 

HIGH DENSITY POLYETHYLENE black smooth pipes for telecommunications, irrigation and other applications

PROPERTY	UNIT	VALUE	TEST METHOD			
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.1 - 0.19 0.4 - 0.75	ISO 1133 ISO 1133			
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.945 - 0.960	ISO 1183			
MELTING POINT	°/C	130 - 135	DSC			
CARBON BLACK*	%	2 - 2.5%	ISO 6964			
TENSILE STRAIN AT BREAK	%	> 350	ISO 527-1:2012			
TENSILE STRENGHT AT BREAK	Мра	16 - 21	ISO 527-1:2012			
0.I.T. 200°C*	minutes	> 20	ISO 11357-6			
HUMIDITY	ppm	< 600	Karl Fischer			
SMELL	typical regenerated more or less intens	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	%	PP < 5%	DSC			
ASH, METALS	slight traces in the formulations of the original products					
PACKAGING	approx 1250 kg big	approx 1250 kg big bag, tank truck, 25 kg bags on pallet				

#### **Product Notes:**

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance and added with antioxidant which increases its resistance to oxidation.

Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.





COMPOSITION:
COLOR:
APPLICATION:

HIGH DENSITY POLYETHYLENE black smooth pipes for telecommunications, irrigation and other applications

PROPERTY	UNIT	VALUE	<b>TEST METHOD</b>			
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.1 - 0.19 0.4 - 0.75	ISO 1133 ISO 1133			
VOLUMETRIC MASS <sup>*</sup>	g/cm³	0.945 - 0.960	ISO 1183			
MELTING POINT	°/C	130 - 135	DSC			
CARBON BLACK*	%	2 - 2.5%	ISO 6964			
TENSILE STRAIN AT BREAK	%	> 350	ISO 527-1:2012			
TENSILE STRENGHT AT BREAK	Мра	16 - 21	ISO 527-1:2012			
0.I.T. 200°C*	minutes		ISO 11357-6			
HUMIDITY	ppm	< 600	Karl Fischer			
SMELL	typical regenerated more or less intens	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	%	PP < 5%	DSC			
ASH, METALS	slight traces in the formulations of the original products					
PACKAGING	approx 1250 kg big bag, tank truck, 25 kg bags on pallet					

#### **Product Notes:**

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance. Not suitable for food contact.

<sup>\*</sup> these parameters can be changed according to customers requests.



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**COMPOSITION:** COLOR: **APPLICATION:** 

HIGH DENSITY POLYETHYLENE black spiral pipes

PROPERTY	UNIT	VALUE	TEST METHOD		
MELT FLOW RATE* 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.1 - 0.16 0.4 - 0.65	ISO 1133 ISO 1133		
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.950 - 0.960	ISO 1183		
MELTING POINT	°/C	130 - 135	DSC		
CARBON BLACK*	%	2 - 2.5%	ISO 6964		
TENSILE STRAIN AT BREAK	%	> 350	ISO 527-1:2012		
TENSILE STRENGHT AT BREAK	Мра	18 - 21	ISO 527-1:2012		
0.I.T. 200°C*	minutes	> 20	ISO 11357-6		
HUMIDITY	ppm	< 600	Karl Fischer		
SMELL	typical regenerated materials smell more or less intense depending on the batch				
OTHER POLYMERS	%	PP < 2%	DSC		
ASH, METALS	slight traces in the formulations of the original products				
PACKAGING	GING approx 1250 kg big bag, tank truck, 25 kg bags on pallet				

#### Product Notes:

Produced with post-industrial recycled materials, added with carbon black, which increases its UV resistance and added with antioxidant which increases its resistance to oxidation.

Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.

LDPE EXTRUSION LINE

02 HDPE blow moulding line

The material that comes from the collection of post-consumer blow moulded products distinguish our blow-moulding product. These products have remarkable Elasticity and Melt Flow Index (0.25 - 0.65 / 2.16 kg 190°).

These features make them the perfect choice for the production of:

- The thin inner wall of electric cable protection corrugated pipe, from Ø40 to Ø250;
- The external and internal walls of large diameter corrugated pipes for sewage, from Ø250 to Ø2000.

• Thanks to the new sorting machine, we can obtain constant colours with a better homogenisation.





















**COMPOSITION:** COLOR: white and matt **APPLICATION:** 

HIGH DENSITY POLYETHYLENE black, light grey, red, blue, dark grey,

inner and outer wall of corrugated pipes for telecommunications and drainage - inner wall of corrugated pipes for sewage

PROPERTY	UNIT	VALUE	<b>TEST METHOD</b>		
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.25 - 0.65 1 - 2.5	ISO 1133 ISO 1133		
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.955 - 0.975	ISO 1183		
MELTING POINT	°/C	130 - 135	DSC		
CARBON BLACK*	%	2 - 2.5%	ISO 6964		
TENSILE STRAIN AT BREAK	%	> 450	ISO 527-1:2012		
TENSILE STRENGHT AT BREAK	Мра	20 - 26	ISO 527-1:2012		
0.I.T. 200°C*	minutes		ISO 11357-6		
HUMIDITY	ppm	< 600	Karl Fischer		
SMELL	typical regenerated more or less intense	typical regenerated materials smell more or less intense depending on the batch			
OTHER POLYMERS	%	PP < 6 %	DSC		
ASH, METALS	slight traces in the formulations of the original products				
<b>PACKAGING</b> approx 1250 kg big bag, tank truck, 25 kg bags on pallet					

#### **Product Notes:**

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance. Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.

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COMPOSITION: COLOR: HIGH DENSITY POLYETHYLENE black, light grey, red, blue, dark grey, white and matt

outer wall of corrugated pipes for telecommunications and drainage

**APPLICATION:** 

PROPERTY	UNIT	VALUE	<b>TEST METHOD</b>
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.25 - 0.65 1 - 2.5	ISO 1133 ISO 1133
VOLUMETRIC MASS <sup>*</sup>	g/cm³	0.960 - 0.990	ISO 1183
MELTING POINT	°/C	130 - 135	DSC
CARBON BLACK*	%	2 - 2.5%	ISO 6964
TENSILE STRAIN AT BREAK	%	> 450	ISO 527-1:2012
TENSILE STRENGHT AT BREAK	Мра	20 - 26	ISO 527-1:2012
0.I.T. 200°C*	minutes		ISO 11357-6
HUMIDITY	ppm	< 600	Karl Fischer
SMELL	typical regenerated materials smell more or less intense depending on the batch		
OTHER POLYMERS	%	PP < 6 %	DSC
ASH, METALS	traces in the formulations of the original products, $CaCO_3$ added		
PACKAGING	approx 1250 kg big bag, tank truck, 25 kg bags on pallet		

#### Product Notes:

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance. **Added CaCO**<sub>3</sub> to implement the mechanical characteristics of crush resistance. Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations.

\* these parameters can be changed according to customers requests.







COMPOSITION:
COLOR:
APPLICATION:

HIGH DENSITY POLYETHYLENE black inner wall of corrugated pipes for telecommunications and drainage

PROPERTY	UNIT	VALUE	<b>TEST METHOD</b>
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.25 - 0.60 1 - 2.2	ISO 1133 ISO 1133
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.945 - 0.965	ISO 1183
MELTING POINT	°/C	129 - 132	DSC
CARBON BLACK*	%	2 - 2.5%	ISO 6964
TENSILE STRAIN AT BREAK	%	> 450	ISO 527-1:2012
TENSILE STRENGHT AT BREAK	Мра	20 - 24	ISO 527-1:2012
0.I.T. 200°C*	minutes		ISO 11357-6
HUMIDITY	ppm	< 600	Karl Fischer
SMELL	typical regenerated materials smell more or less intense depending on the batch		
OTHER POLYMERS	%	PP < 4%	DSC
ASH, METALS	slight traces in the formulations of the original products		
PACKAGING	approx 1250 kg big bag, tank truck, 25 kg bags on pallet		

#### **Product Notes:**

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance. Not suitable for food contact.

LLDPE added to increase the elasticity of the material, particulary suitable for internal walls of double wall corrugated pipes. All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.

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LDPE EXTRUSION LINE





COMPOSITION:	HIGH DENSITY POLYETHYLENE
COLOR:	black
APPLICATION:	outer wall of corrugated pipes for sewage, big diameters

PROPERTY	UNIT	VALUE	TEST METHOD
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.2 - 0.4 0.85 -1.5	ISO 1133 ISO 1133
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.948 - 0.960	ISO 1183
MELTING POINT	°/C	130 - 135	DSC
CARBON BLACK*	%	2 - 2.5%	ISO 6964
TENSILE STRAIN AT BREAK	%	> 450	ISO 527-1:2012
TENSILE STRENGHT AT BREAK	Мра	19 - 24	ISO 527-1:2012
0.I.T. 200°C*	minutes		ISO 11357-6
HUMIDITY	ppm	< 600	Karl Fischer
SMELL	typical regenerated materials smell more or less intense depending on the batch		
OTHER POLYMERS	%	PP < 5 %	DSC
ASH, METALS	slight traces in the formulations of the original products		
PACKAGING	approx 1250 kg big bag, tank truck, 25 kg bags on pallet		

#### **Product Notes:**

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance. Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.



The LDPE version is widely used for the production of irrigation pipes. The two products are the result of years of research and experience. They are the response to the need for a product that does not mutate in time, even when exposed to extreme temperature changes.



In addition, thanks to the high filtration of the material, our compound can be used to produce very thin bags.









**COMPOSITION:** COLOR: **APPLICATION:** 

LOW DENSITY POLYETHYLENE black irrigation smooth pipes

PROPERTY	UNIT	VALUE	TEST METHOD
MELT FLOW RATE* 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.25 - 0.65 1 - 2.5	ISO 1133 ISO 1133
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.925 - 0.938	ISO 1183
MELTING POINT	°/C	110 - 113	DSC
CARBON BLACK*	%	2 - 2.5%	ISO 6964
TENSILE STRAIN AT BREAK	%	> 200	ISO 527-1:2012
TENSILE STRENGHT AT BREAK	Мра	10 - 18	ISO 527-1:2012
0.I.T. 200°C*	minutes		ISO 11357-6
HUMIDITY	ppm	< 600	Karl Fischer
SMELL	typical regenerated materials smell more or less intense depending on the batch		
OTHER POLYMERS	%	PP < 4%	DSC
ASH, METALS	slight traces in the formulations of the original products		
PACKAGING	approx 1200 kg big bag		

#### Product Notes:

Produced with post-industrial and post-consumer recycled materials, added with carbon black, which increases its UV resistance. Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations. \* these parameters can be changed according to customers requests.

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LDPE EXTRUSION LINE





**COMPOSITION:** COLOR: **APPLICATION:** 

LOW DENSITY POLYETHYLENE black irrigation smooth pipes and bags

PROPERTY	UNIT	VALUE	<b>TEST METHOD</b>
MELT FLOW RATE <sup>*</sup> 190°C - 2.16 kg 190°C - 5 kg	g/10 min g/10 min	0.25 - 0.70 1 - 2.8	ISO 1133 ISO 1133
VOLUMETRIC MASS <sup>*</sup>	g/cm <sup>3</sup>	0.920 - 0.935	ISO 1183
MELTING POINT	°/C	110 - 113	DSC
CARBON BLACK*	%	2 - 2.5%	ISO 6964
TENSILE STRAIN AT BREAK	%	> 200	ISO 527-1:2012
TENSILE STRENGHT AT BREAK	Мра	10 - 18	ISO 527-1:2012
0.I.T. 200°C*	minutes		ISO 11357-6
HUMIDITY	ppm	< 600	Karl Fischer
SMELL	typical regenerated materials smell more or less intense depending on the batch		
OTHER POLYMERS	%	PP < 4%	DSC
ASH, METALS	slight traces in the formulations of the original products		
PACKAGING	approx 1200 kg big bag		

**Product Notes:** 

\* these parameters can be changed according to customers requests.

Produced with post-industrial and post-consumer recycled materials, added with carbon black which increases its resistance to UV. LLDPE added to increase the elasticity of the material.

Not suitable for food contact.

All the information contained in this sheet is purely indicative; therefore, it is advisable to always contact the company for requests, particular uses and different and / or customized formulations.





























Company subject to management and coordination by HB Boscarini S.p.A.





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