

# Technical Data Sheet of Polyethylene



RECYCLING

## Eko M PIR Recycled Polyethylene

### Description

EkoPE® is Recycled Polyethylene ( Lldpe, Hdpe) produced from several wastes and result of washing and cleaning the polyethylene selected from industrial wastes. Not suitable for food packaging.

### Application

- \* Shrink
- \* LDPE Bags
- \* Bundel PE Film
- \* Non Food Pe Packagings
- \* Standard Rolls

### Physical Properties

Property	Typical Value	Test Method
Density (g/cm <sup>3</sup> )	0,900 - 0,935	ISO 1183
MFI (g/10 mins.)	0,3 - 1	ISO 1133
Bulk Density	500 g/l	ISO 66/77

### Technical Paramaters

This results obtained blended %70 LLDPE with %30 Eko M PIR Thickness is 50 micron. B.U.R 1.749 Die gap:1.5 mm.

TEST	METHOD		UNIT	RESULTS
Elastic Modulus	MD	ASTM D882	Mpa	300-450
	TD		Mpa	450-600
Tensile Strength at Break	MD	ASTM D882	Mpa	23-30
	TD		Mpa	22-28
Elongation at Break	MD	ASTM D882	%	700-900
	TD		%	800-1000
Dart Drop		Ekopet Method	gr/μ	2

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## Processing Techniques

It is easily processed in Blown extruders.  
Melting temperatures are between 160 - 195 °C

## Storage

It should be stacked under 50 °C and protected from sunlight  
Humidity and moisture in the storage area may cause physical, odor and color changes in the product.

## Appearance Property

There can be some small plastic substances which do not come from standard PE in the granules . These small particles can appear as black small grains (carbon deposits) in the material. There will be color changes and inclusions on the final product, it varies from batch to batch (but you can also see it within one and the same batch). The variation comes from the base material / granules which naturally have a certain color difference.

## Safety

The product is not classified as dangerous.

## Recycling

The product can be recycled using crushing and washing methods.  
Recycled polyethylene is not as clear as virgin polyethylene.

## Related Documents

We can send the following documents upon request.

- \* Product Safety Data Sheet
- \* GRS certificate

## Information

It can be unstable product inconsistencies because of the obtained from recycling materials.  
Please don't forget, given test results are tested in the Ekopet Laboratory and that results can change batch to



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batch because of the recycled materials.

Customer should determined suitability of product according to using conditions. The customer are responsible from the safety and legality of product.

This TDS includes described product , Ekopet is not responsible from occurring mistakes in final product which that the customer's mixing with other different products

The product is not tested using for food contact, water contact, medical.

Due to nature of recycling products, some variation can be observed in color and other properties. Otherwise, general sale conditions are valid.

