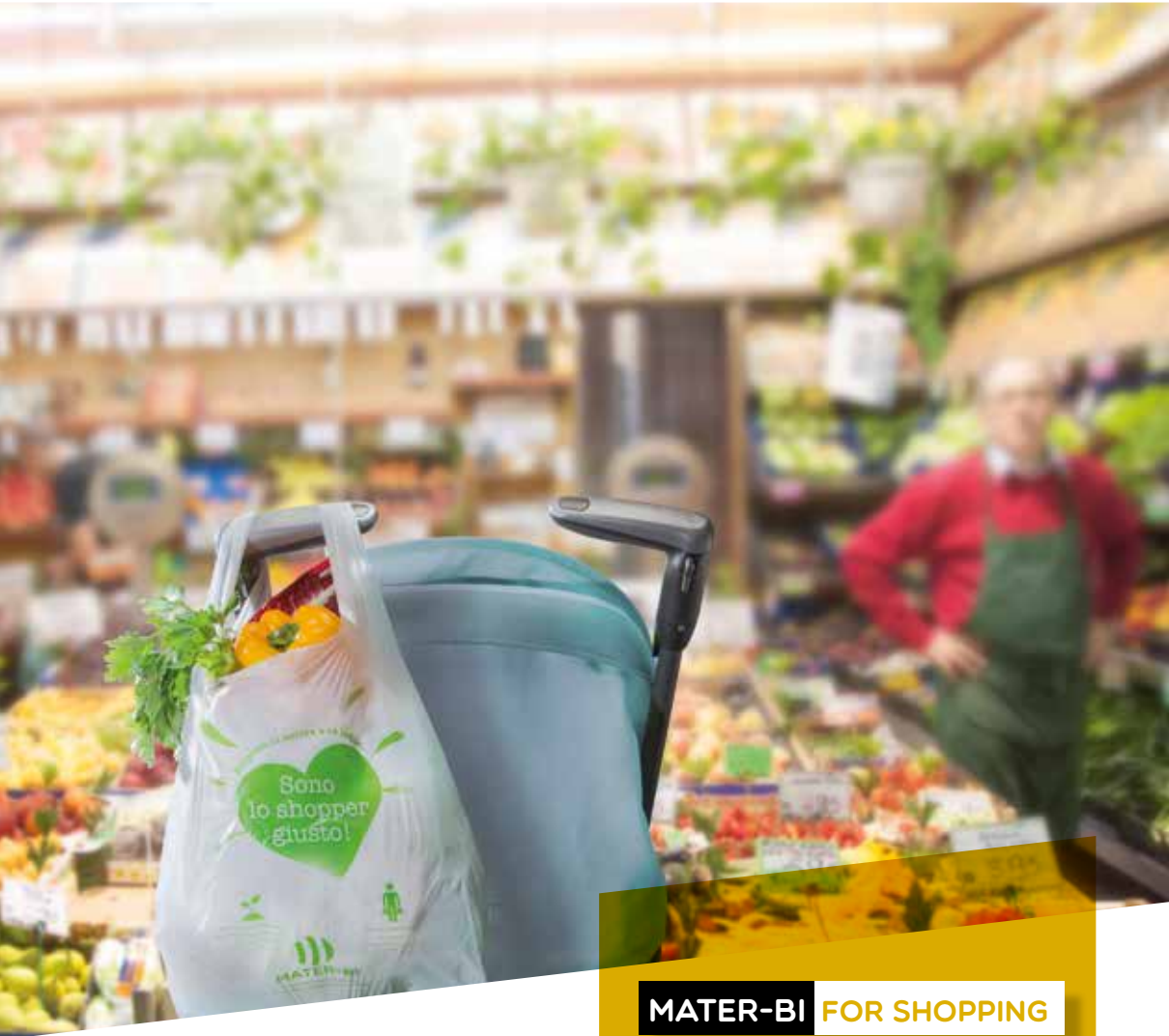




MATER-BI

CARRIER BAGS

COMPARING
PERFORMANCE



MATER-BI FOR SHOPPING

MATER-BI is a family of fully **biodegradable and compostable** bioplastics which use renewable resources to provide a solution with low environmental impact and to solve specific environmental problems in various sectors, such as foodservice, packaging and separate collection of organic waste.

Bags made of MATER-BI are fully biodegradable and compostable and, as such, can be reused also for the separate collection of organic waste.

Carrier bags made of MATER-BI are in compliance with the law and are certified by bodies that guarantee their conformity to the UNI EN 13432 standard.


THICKNESS

Weight for weight, carrier bags made of MATER-BI are thicker than carrier bags made of other materials.

SAME THICKNESS, LOWER WEIGHT

Carrier bag size: 50 cm X 60 cm


The lower density of **MATER-BI** compared to other materials means that carrier bags can be made which weigh less than other bags of the same thickness

Material	Density of material [g/cm ³]	Thickness of carrier bag [µm]	Wheight of carrier bag [g]
MATER-BI 	1,28	22	14,9
Product A	1,36		15,8
Product B	1,38		16,0
Product C	1,40		16,3

SAME WEIGHT, GREATER THICKNESS

Carrier bag size: 50 cm X 60 cm

The lower density of **MATER-BI** compared to other materials means that carrier bags can be made which are thicker than other bags of the same weight and are therefore more robust and more tear resistant.

Material	Density of material [g/cm ³]	Wheight of carrier bag [g]	Thickness of carrier bag [µm]
MATER-BI 	1,28	14,5	21,1
Product A	1,36		19,9
Product B	1,38		19,6
Product C	1,40		19,3

COMPARING BAGS

The photos show the consequences of low resistance to tearing.

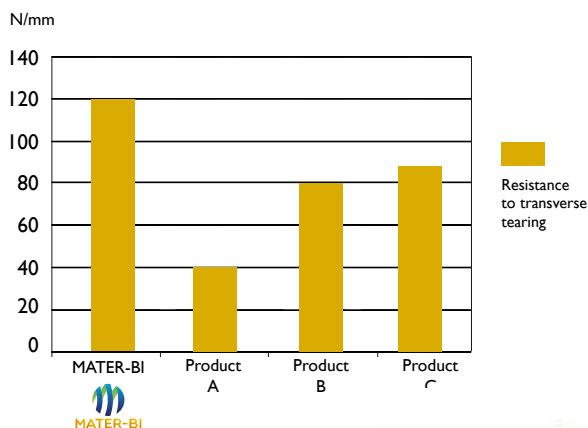
Other types of bag

MATER-BI bag



TRANSVERSE TEARING

Resistance to transverse tearing [N/mm] (ASTM D1922)
Values normalised to a thickness of 22 µm



MATER-BI is certified as biodegradable and compostable. If disposed of in the wet waste fraction, it is converted into fertile, useful compost. www.materbi.com

