

# THE NEW PERFORMANCE KIT FOR COFFEE CAPSULES.

ULTRADUR® (PBT)

 **BASF**

We create chemistry



# NEW ULTRADUR® (PBT)

## CHOOSE THE COFFE CAPSULES PERFORMANCE YOU WANT

### ULTRADUR® Toolbox – choose your grades

Ultradur® B1520 FC R01 – the basic product in the portfolio – is a specially developed high flowability PBT for packaging applications. Beside the well-known advantages of Ultradur® – stiffness, strength, thermal stability and chemical resistance – the easy-flowing Ultradur® has balanced barrier properties and is the product of choice when it comes to single layer aroma sealed packaging. Combined with other grades it even multiplies its performance.

### ULTRADUR® BASIC GRADES

- Stiffness
- Strength
- Thermal stability
- Chemical resistance



#### REDUCE FOOD WASTE



Increase shelf life



#### PERFORMANCE



Further reduced THF emissions



#### RESOURCE EFFICIENCY



Reduce capsule weight



#### RENEWABLES



Use non fossil resources

#### BARRIER

Down to 0,1% O<sub>2</sub> after 100 days.

#### THF MIGRATION

Further improvement in different simulants.

#### PRODUCTIVITY

Packaging down to 1,6 gr per capsule 2,5% more coffee per capsule.

#### SUSTAINABILITY

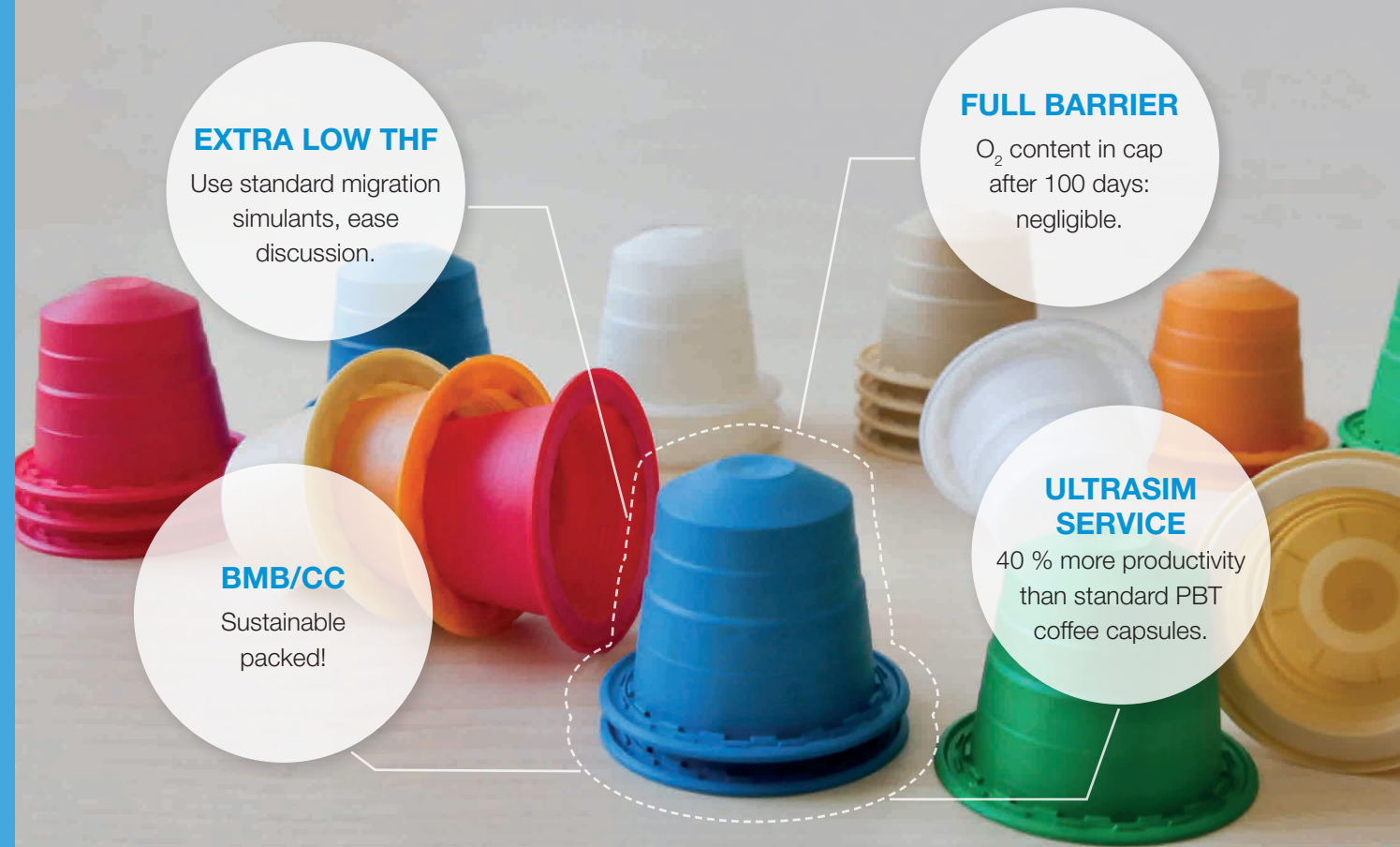
Drastic reduction of CO<sub>2</sub> footprint with ChemCycling™ and biomass balance (BMB).



# NEW ULTRADUR® (PBT) CONCEPT FOR PACKAGING

## SUSTAINABLE SOLUTIONS FOR COFFEE CAPSULES

With its innovative portfolio of Ultradur® FC grades (PBT) for coffee capsules, BASF is taking a new approach to several facets of the product in order to offer customized, sustainable products tailored to customer needs. Together with the basic product Ultradur® B1520FC R01, further product-specific grades and services are offered, which can be used individually or combined in total by the customer as desired. For example, weight savings of up to 40 per cent can be achieved and barrier properties (oxygen barrier) can be optimized even further. In addition to the conventional PBT grades, ChemCycling™ and BMB variants are also offered, which lead to significant CO<sub>2</sub> savings.





# ULTRADUR® GRADES

## FLEXIBILITY. FREEDOM TO CHOOSE.

### BARRIER

- Our Barrier grade will keep the oxygen out of your capsule, keeping your coffee as fresh as just ground!

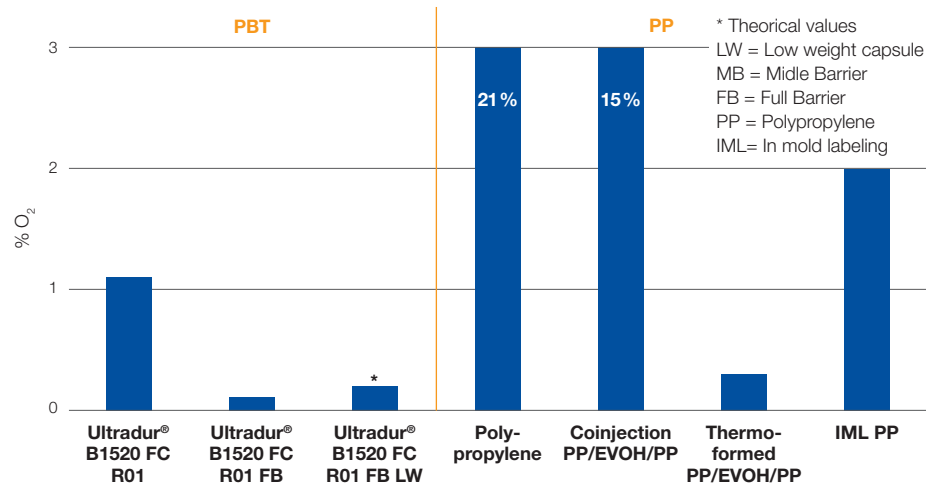


### THF MIGRATION

- Low THF emission grade will secure the lowest flavor interaction between the capsule and the coffee.
- Coffee taste and nothing else! Ready to be served!

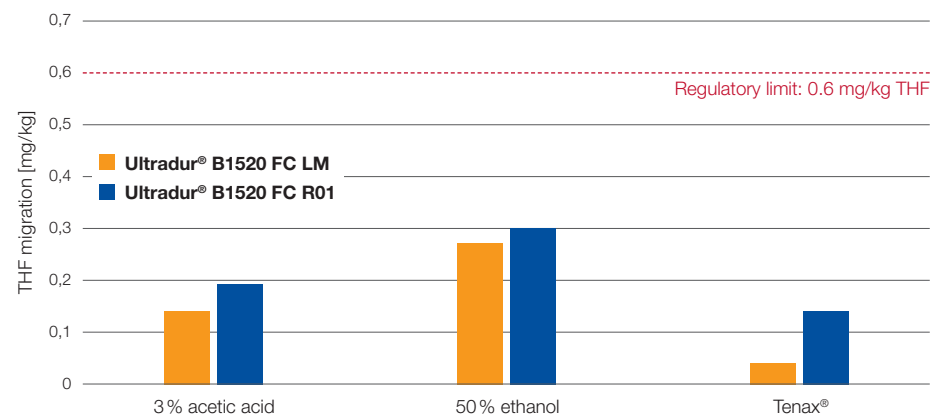


#### O<sub>2</sub> content in capsule after 100 days: negligible



#### Capsules made of Ultradur® B1520 FC LM

Migration testing – Fabes 60 °C for 10 days



New Ultradur® grades show further reduced THF migrations in all simulants.

# ULTRADUR® TOOLBOX

## FULL COFFEE EXPERIENCE? TAKE THEM ALL!

### PRODUCTIVITY

- With our new capsule design, the coffee quantity per cap can be increased up to 2,5%.
- The capsule weight could be reduced by 40% capsule efficiency is boosted!

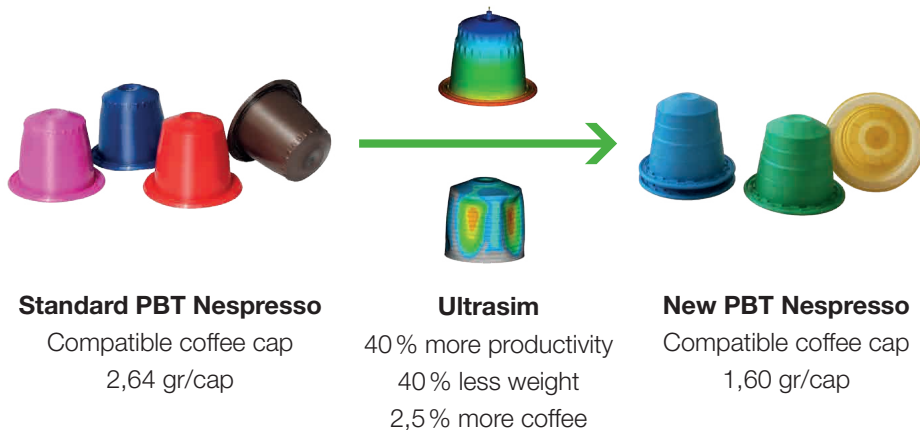


### SUSTAINABILITY

- BASF biomass balance (BMB) approach leads to 40% saving of CO<sub>2</sub> compared to the fossil version.
- ChemCycling™ also leads to a CO<sub>2</sub> reduction up to 50% and post-consumer plastic waste reduction, using this waste to generate pyrolysis oil.
- Bio-based materials lead to higher water and land usage, while reducing CO<sub>2</sub> emissions.

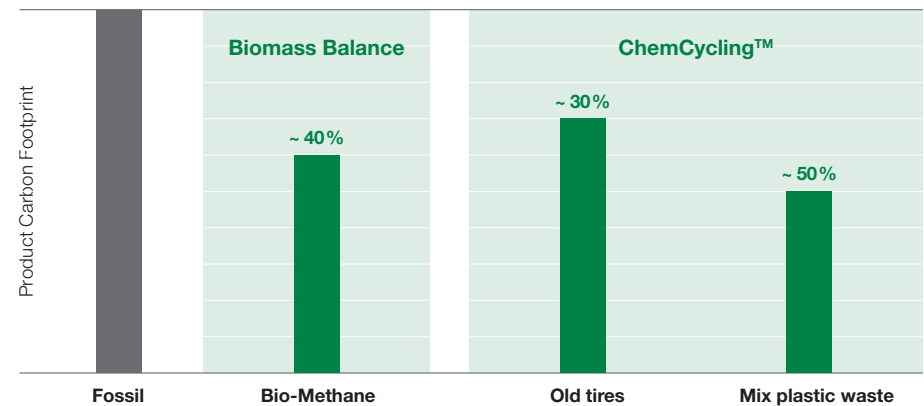


#### Ultrasim design



#### Product Carbon Footprint of Ultradur® for coffee capsules

Make use of the full BASF potential – first indications



BASF delivers sustainable solutions – you decide what is best for you.

#### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (September 2021)

Please visit our websites:

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If you have technical questions on the products,  
please contact the Ultra-Infopoint:



Further information on Ultradur® (PBT)  
can be found on the internet:

