BASF
We create chemistry

Ultramid® Expand

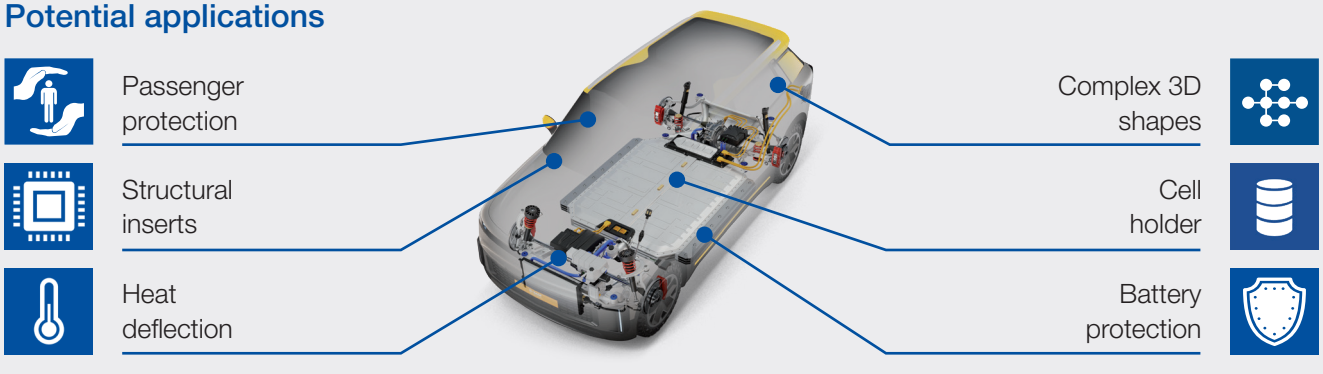
EXPAND YOUR IDEAS

Polyamide based particle foam with unique properties

- High heat deflection temperature
- High temperature resistance
- Excellent mechanical properties at temperature >120 °C
- Chemical resistance against automotive liquids
- Drop-in solution in EPP tooling (steam chest molding)
- Recyclability
- Simulation models available
- Processable via cathodic dip coating

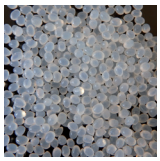
Product	Bead size	Bulk density	
Ultramid® Expand D4S2925 UN	2.5 mm	290 g/L	Uncolored
Ultramid® Expand D4H2925 BK23381	2.5 mm	290 g/L	Heat stabilized
Ultramid® Expand **Experimental** D4H3510 BK23381	1.0 mm	350 g/L	Heat stabilized

Potential applications



Production process

BASF Process



Ultramid® granulate

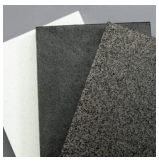
BASF Foaming Process

Ultramid® Expand

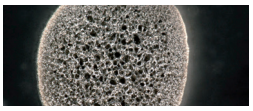
Customer

Ultramid® Expand

Steam molding technology

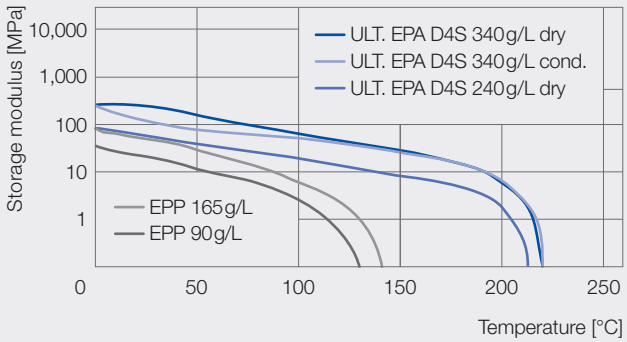


Final shaped part

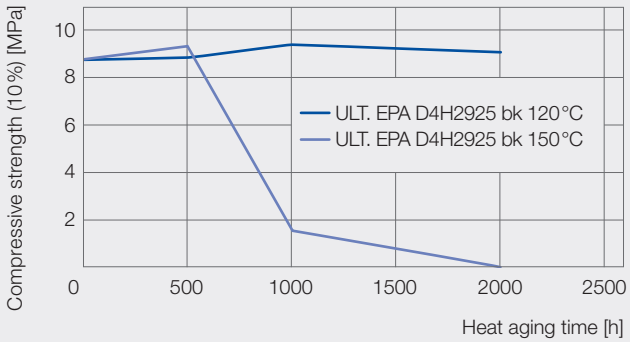


Cellular structure results in drastic weight-reduction with high mechanical properties!

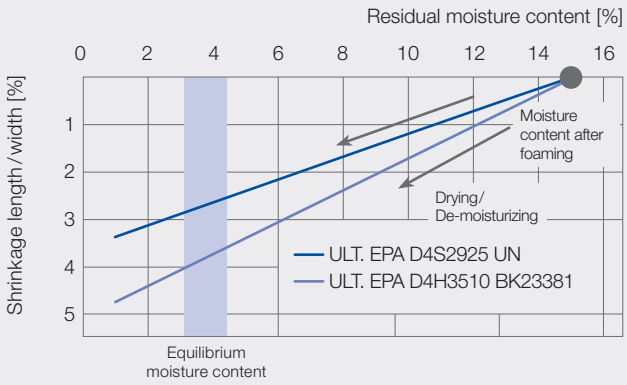
Superior mechanical properties at elevated temperature



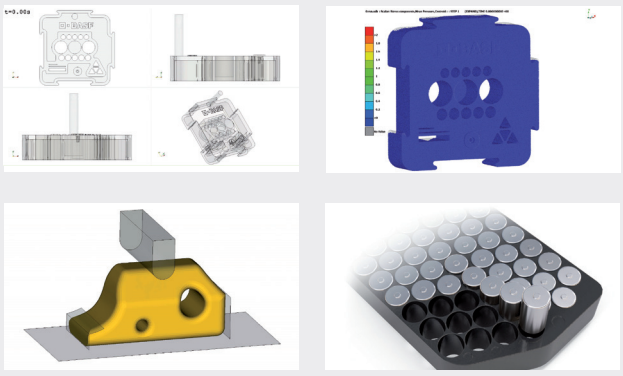
Compressive strength (10 %) after heat aging



Water uptake vs. shrinkage



Full CAE support available including particle filling and crash simulation



Ultra Infopoint
+49 621 60-78780
ultraplaste.infopoint@basf.com

Please visit our websites
ultramid-expand.basf.com
plastics.basf.com

EXPAND YOUR IDEAS