



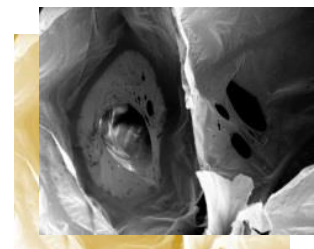
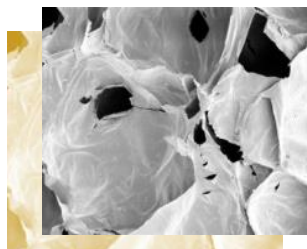
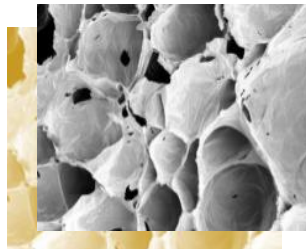
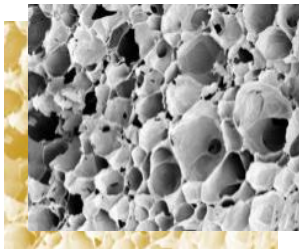
OpenCellMat

NEW TECHNOLOGY TO PRODUCE LOW-DENSITY OPEN-CELL CROSSLINKED FOAMS USING BATCH AND CONTINUOUS PROCESSES

KEY ASPECTS

- NEW MATERIALS WITH SIMILAR PROPERTIES TO THAT OF FLEXIBLE POLYURETHANE BUT BASED ON A POLYOLEFIN MATRIX (PE, EVA, EBA, BLENDS, ETC).
- DIFFERENT GRADES DEPENDING ON FOAM DENSITY AND TORTUOSITY OF CELLULAR STRUCTURE.

DENSITY	15-60 kg/m ³
POLYMERS	Polyolefins and blends (LDPE, EBA, EVA, ...)
CELLULAR STRUCTURE	100 % Open cell structure. Hybrid-like structures Low and high tortuous structures.
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> • High acoustic absorption. • High oil absorption, negligible water absorption. Selective-like materials. • Excellent cushioning capabilities. • High thermal insulation ability. • Elevated energy absorption in impacts. • Low thermal expansion. • Strong damping of vibrations.



ADVANTAGES

- Polyolefin-based: Isocyanate-free, low VOC.
- Production facilities: Same as for the closed cell counterparts.
- Higher resistance to moisture and chemical compounds.
- Lower costs of raw materials.
- Thermoformable using conventional technologies.
- Possibility to laminate with other products (either closed or open cell).
- Some specific properties such as high oil absorption (40 g/g), high acoustic absorption at low frequencies, strain-rate dependent mechanical performance.

POTENTIAL APPLICATIONS

- Automotive seats
- Cushions
- Clothes
- Mattresses
- Seals
- Acoustic absorbers
- Body protection in sports
- Vibration-dampening elements
- Absorbing elements in hygiene products
- Oil absorbers

CONTACT US FOR MORE INFORMATION

info@cellmattechnologies.com

www.cellmattechnologies.com

Tel: +34 983 189 197

CELLMAT TECHNOLOGIES S.L.

Edificio Parque Científico UVa

Paseo de Belén 9A

47011, Valladolid, Spain