

CROSSLINKED FOAMS – BATCH PROCESS

Increasing the potential of commodity materials by implementing advanced strategies

CHARACTERISTICS

- EQUIPMENT TO PRODUCE CROSSLINKED FOAMS: ROLL MILL, HOT-PLATES PRESSES, FURNACES, & MOLDS:
 - ONE-STEP COMPRESSION MOLDING
 - TWO-STEP COMPRESSION MOLDING
 - CONTINUOUS PROCESS
 - SEMI-CONTINUOUS PROCESS
- PHYSICAL OR CHEMICAL CROSSLINKING PROCESSES
- **FINAL THICKNESS 100 mm.**
- PROTOTYPES 500x500 mm²
- PRODUCTION OF RUBBER FOAMS, ELASTOMERS, ETC.
- PRODUCTION OF XL-POLYOLEFIN FOAMS: EVA, EBA, LDPE, HDPE, ETC.



APPLICATIONS

Tel: +34 983 189 197

DESIGN AND EVALUATION OF NEW FORMULATIONS	 Selection of raw materials (polymers and additives) and analysis of foamability and crosslinking kinetics. Testing of recycled polymers and new blowing agents. Formulations with reduced VOC emissions.
IMPLEMENTATION OF ADVANCED STRATEGIES TO IMPROVE PROPERTIES	 Reduction of the thermal conductivity. Improvement of the mechanical properties. Enhancement of the surface quality. Generation of new structures, such as open cell materials.
PROTOTYPE PRODUCTION AND CHARACTERIZATION	 Detailed analysis of the cellular structure. Fabrication of prototypes for testing properties: thermal conductivity, mechanical properties, fire behavior, acoustic absorption, etc.
CONTACT US FOR MORE INFORMATION nfo@cellmattechnologies.com	CELLMAT TECHNOLOGIES S.L Edificio Parque Científico UVa Paseo de Belén 94

Va 9A 47011, Valladolid, Spain



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TECHNICAL SPECIFICATIONS

(I) ONE-STEP OR TWO-STEPS COMPRESSION MOLDING PROCESS



ROLL MILL

Model	Two roll mill DW5110, Fanyuan	
Temperature range	300 ºC	
Mixing capacity	Up to 2 kg	
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Temperature range	300 ºC	
Mixing capacity	Up to 2 kg	

MELT COOLERS

Tailored-shape prototypes

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HOT PLATE PRESSES (x2)

HOT PLATE PRESS 300x300 mm ²		
Model	Plastic Press, Fanyuan	
Maximum pressure	20 T	
Maximum temperature	350 ºC	
Cooling system	Recirculating cooling system	
HOT PLATE PRESS 300x300 mm ²		
Model	Plastic Press, Fanyuan	
Maximum pressure	50 T	
Maximum temperature	350 ºC	
Cooling system	Recirculating cooling system	

CELLMAT TECHNOLOGIES S.L.

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CROSSLINKED FOAMS – CONTINUOUS PROCESS

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CHARACTERISTICS

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 - TWO-STEP COMPRESSION MOLDING
 - CONTINUOUS PROCESS
 - SEMI-CONTINUOUS PROCESS
- PHYSICAL OR CHEMICAL CROSSLINKING PROCESSES
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CROSSLINKED FOAMS – CONTINUOUS PROCESS

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TECHNICAL SPECIFICATIONS

(II) CONTINUOUS OR SEMICONTINUOUS PROCESS

