

INJECTION MOLDING

Turn-Key projects - From formulation to prototyping and modeling

CHARACTERISTICS

- CHEMICAL OR PHYSICAL BLOWLING AGENTS (CO₂, N₂)
- LOW PRESSURE PROCESS OR HIGH-PRESSURE PROCESS CORE BACK TECHNOLOGY
- TAILORED FORMULATIONS BASED ON DIFFERENT THERMOPLASTICS: POLYOLEFINS (PP, PE, HDPE), POLYESTERS (PET, PLA), POLYAMIDE, THERMOPLASTIC ELASTOMERS, ETC.
- DIFFERENT TYPES OF FILLERS: TALC, FIBERS, NANOPARTICLES
- POSSIBILITY OF USING COMPLEX BLENDS BY COMBINING WITH COMPOUNDING LINE
- DIFFERENT MOLD GEOMETRIES



APPLICATIONS

		1	
	FORMULATION DESIGN	 Selection of raw materials: po Design of specific formulation foamed parts. Analysis of foamability of the 	olymers and additives. ns to fulfill requirements in formulations.
	PRODUCTION OF PROTOTYPES	 Production of solid and foam different dimensions. Adjustment of blowing agent Optimization of processing pagent 	ed plaques/prototypes with type and concentration. arameters.
Render At 19 Carlos Tales	5 7	1	
	ANALYSIS OF STRUCTURE PROPERTIES RELATIONSHIP	 Quantitative analysis of solid Evaluation of mechanical (ter or thermal properties as a full Establishing the structure-pro 	and gas phase descriptors. Isile, impact, tear), acoustic nction of density. Operties relationship.
$y f(x) = 2^{n}$	5 2 3	1	
F()=y	BUILDING UP OF ANALYTICAL MOLDELS	 Building up analytical models mechanical properties using Using the obtained equations 	for thermal, acoustic, or the experimental data. s as input for FEM analysis.
CONTACT US FOR MOI nfo@cellmattechnologie www.cellmattechnologie Tel: +34 983 189 197	RE INFORMATION es.com	2	CELLMAT TECHNOLOGIES S.L. Edificio Parque Científico UVa Paseo de Belén 9 <i>A</i> 47011, Valladolid, Spair