

About us...

Since 1975, Condensia manufactures and sells, from its facilities in Barcelona, special esters for niche applications and custom products created for our clients, with whom we aim to build solid and long-lasting collaborations, based on mutual cooperation and trust, through a relationship that is always direct and communicative, honest, quick-responding and flexible.

Rising our presence in international markets entails focusing on our primary objectives: to grow in an environmentally friendly way, to bring added value to our customers, to maintain our spirit of continuous improvement, to optimize our resources and to never forget that the people who work at Condensia make this reality possible thanks to an institutional culture based on values such as respect, professionalism, integrity and teamwork.

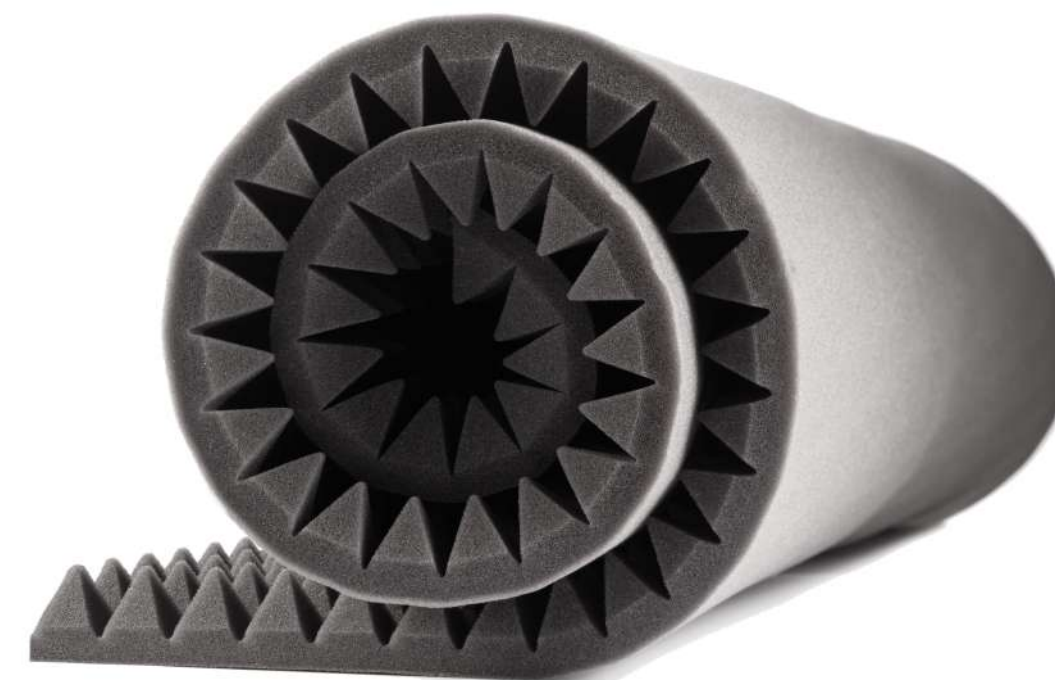


Passion for chemistry



PU Polyester-Polyols

Polyadipates / Polysebacates / Polyphthalates / PU Plasticizers



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Passion for chemistry

PU Polyester-Polyols

Condensia offers polyester-polyols which are low molecular weight polymers characterized by hydroxyl terminal groups useful for the preparation of flexible and rigid polyurethanes (PUs). Normally, these polyesters are highly crystalline compared with their polyether equivalents and higher in thermal and fire resistance. They are partially biobased and fully biodegradable.

For this reason, they can be used in several applications like:

- Flexible and rigid foams
- Coatings and adhesives
- Sealants and elastomers
- Synthetic leather

GLYPOL® polyol-polyesters are characterized by wide molecular weight range with functionalities between 2 and 3. Depending on the chemistry, we can offer:

Polyadipates

Linear or lightly branched polyester-polyols based on aliphatic acids and polyalcohol ideal for thermoplastic PUs (TPUs), coatings and adhesives.

They are specially designed for flexible foams where their high resistance to solvents and flames, apart their excellent elongation and tensile properties, make these aliphatic polyesters the product of choice. Moreover, they impart an improved resistance to the abrasion in PUs for coating and footwear applications.

Polysebacates

Linear polyester-polyols based on renewable raw materials ideal for thermoplastic PUs (TPUs), coating and adhesives. They are environmental friendly and are ideal for partially biodegradable PUs. Polysebacates are solid polyols at room temperature but can be easily handled at 60°C.

Polyphthalates

Aromatic polyester-polyols specially designed for board stock for building insulation, polyisocyanurate foams and in combination with polyether-polyols for spraying applications. They are a good compromise among cost and performance above all for fire resistance applications.

Glyplast®: PU plasticizers

Condensia offers a broad range of plasticizers for PU and TPU used in various applications such as automotive, enamels for copper wires, flexible packaging, flooring, footwear, hoses, synthetic leather, gaskets, etc.

They impart performing benefits to the end products:

- Reducing the melt viscosity
- Decreasing the Tg temperature
- Modifying mechanical properties
- Improving biodegradability
- Increasing bio-based content

CHEMICAL AND PHYSICAL PROPERTIES										MAIN APPLICATIONS							
	VISCOSITY (cP)	OH NUMBER (mg KOH/g)	EXTRACTION RESISTANCE	AGEING	HIGH TEMPERATURE PERFORMANCE	LOW TEMPERATURE PERFORMANCE	FUNCTI- ONALITY	BIODEGRADA- BILITY OECD 301F	BIOBASED CONTENT (in weight)	TPU	ADHESIVES	ELASTOMERS	FLEXIBLE FOAMS	RIGID FOAMS	COATINGS	PIGMENT CARRIERS	SHOE SOLES
POLYADIPATES																	
Glypol 1025	3000 (60°C)	40	+	+	+	++	2	>85%	50%	●	●	●					
Glypol 1027	1500 (60°C)	55	+	++	+	++	2	>85%	50%	●	●	●					
Glypol 2035	9000 (60°C)	38	+++	++	++	+	2.5	>75%	20%			●	●		●		●
Glypol 3020	450 (30°C)	180	++	++	++	++	2	>60%	0%		●	●			●	●	
Glypol 3035	25000 (25°C)	60	+++	+++	++	+	2.3	>60%	20%				●		●		
Glypol 4027	8500 (25°C)	55	++	++	++	++	2	>60%	20%	●	●	●					
Glypol 4029	4500 (25°C)	56	++	++	++	++	2	>60%	30%	●	●	●					
Glypol 4035	1600 (60°C)	56	+++	++	++	+	2.2	>60%	0%			●	●		●		●
Glypol 5029	10000 (25°C)	46	+++	+++	+++	+	2	>60%	0%	●	●	●			●		
POLYSEBACATES																	
Glypol 470/2	150 (100°C)	50	++	++	++	+	2	>85%	50%	●		●	●		●		●
Glypol 470/5	2000 (100°C)	25	++	+	+++	++	2	>85%	50%	●		●	●		●		●
Glypol 170/2	850 (60°C)	60	++	++	++	+++	2	>85%	100%	●		●	●		●		●
POLYPHTHALATES																	
Glypol 3920	2200 (25°C)	315	++	+	++	+	2	>60%	15%	●			●				
Glypol 3921	1000 (25°C)	190	++	+	++	+	2	>75%	50%	●				●			
PU PLASTICIZERS																	
Glyplast DEPG/SG	100 (25°C)	n/a	+	+	++	++	n/a	>85%	0%	●	●	●	●				
Glyplast 392	850 (25°C)	n/a	+	+	++	++	n/a	<75%	0%	●				●			
Glyplast 20K/3	900 (25°C)	n/a	+	++	+	++	n/a	>75%	50%	●							