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[Company >](#) | [Custom Synthesis >](#) | [Catalog >](#)

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Custom Services

Tailor-made polymers & materials

Industrial and academic organizations worldwide work to make progresses in their research of innovative solutions that fulfill tomorrow's challenges. To that end, **it is simple for those stakeholders to identify their needs, but it is more complex to find the appropriate response**. In this way, SPECIFIC POLYMERS offer to its customers various custom services in polymers and materials chemistry to help them reaching their goals. Our objective is to design, synthesize, formulate and provide the proper materials to our customers in order for them to validate their proof of concepts in their own applications.

Custom Synthesis

On-demand functional building-blocks, monomers and polymers

Custom synthesis service is led by **Camille Chatard**, Research Scientist at SPECIFIC POLYMERS for more than 8 years.



“Based on our skills in both organic and polymers chemistry, we can provide custom synthesis service to answer a very wide range of requests. We have a strong experience in designing functional monomers, polymers and building-blocks for various applications. Most of the time, we are offering a multi-step approach to our customers:

- › *State of the art*
- › *Definition of the most relevant synthetic pathways*
- › *Feasibility study on small quantities (5-10 grams)*
- › *Synthesis of Deliverables from 20 grams to 100 grams*

Our tailor-made products are sold with a detailed Technical Data Sheet containing the most relevant physico-chemical characterizations (NMR, SEC, IR, DSC, TGA). Research reports describing the experimental processes can also be provided. During the whole collaboration, we have regular exchanges with our customers to discuss the progress of their project.”

Camille Chatard

Research Scientist – Organic and Polymer Chemistry
Custom Synthesis Manager

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Custom Materials Formulation

Build-to-Spec. materials and coating formulations

Materials Formulation Service is led by **Agathe Bouvet-Marchand**, PhD and Research Scientist at SPECIFIC POLYMERS for more than 4 years.

“*In our materials’ laboratory, we focus on the development of high-specificity formulations for the elaboration of innovative materials and coatings. Thanks to our large network of industrial suppliers and the functional (macro)molecules synthesized in SPECIFIC POLYMERS, we have access to a very wide range of precursor additives that allow us to offer build-to-spec materials while keeping an industrial approach.*



Our main research thematics are high performance thermosets materials, bio-based materials, UV and thermal-cured coatings exhibiting various properties such as hydrophobicity, oleophobicity or electronic conductivity.

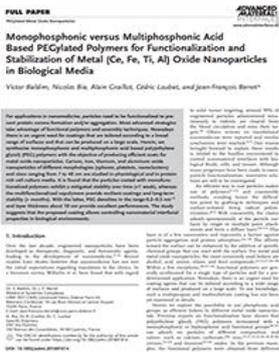
Our objective is to combine the best products in our formulations and associate them so as to answer our customers’ specifications. These formulations are then screened in our lab in order to deliver the most relevant materials’ formulation for our customers applications.”

Agathe Bouvet-Marchand, PhD
Research Scientist – Organic, Hybrid and Composite Materials
Custom Material Formulation Manager
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Publication of the Month

Monophosphonic versus Multiphosphonic Acid Based PEGylated Polymers >



Authors: V. Baldim, N.Bia, A. Graillet, C. Loubat, J-F. Berret
This paper, published in 2019, highlights the interest of our custom synthesized polymers. Indeed, the syntheses of monophosphonic and multiphosphonic acid based poly(ethylene glycol) is presented in this work and allow the preparation of functionalized nanoparticles of interest in the field of nanomedicine. Nowadays for applications in this particular sector, there is an urgent need for coatings that are tailored according to a broad range of surfaces and that can be produced on a large scale.

Related R&D Products
SP-1P-1-001 >
SP-4P-1-011 >

More Publications >

R&D Bestsellers 2018

What interested you most last year!

In 2018, SPECIFIC POLYMERS provided a wide range of R&D products from its portfolio to industrial and academic customers and partners. The most popular products are representative of the diversity of the scientific areas in which SPECIFIC POLYMERS is involved in. Those products present a great interest due to their particular attributes and properties:

- **Phosphonated methacrylate MAPC1-Me** (SP-41-003) >

Applications: Surface adhesion on metal or metal oxides, fireproofing or water treatments

- **Methacrylate bearing a cyclocarbonate function MAGC** (SP-40-001) >

Applications: Non-isocyanate polyurethane or additive in solid polymer electrolytes

- **Bifunctional poly(propylene glycol) cyclocarbonates** (SP-1P-0-004) >

Applications: Non-isocyanate polyurethane or additive in solid polymer electrolytes

- **Maleimide bifunctional poly(propylene glycol) polymers** (SP-1P-9-013) >

Applications: Self-initiated photopolymerization and self-healing materials

Do not hesitate to contact us >

New interns at SP

SPECIFIC POLYMERS is involved in student education

For more than one month, the SPECIFIC POLYMERS' team has been strengthened thank to the arrival of **Romain Amador** and **Margot Belleret** from the ECPM (Ecole européenne de chimie polymères et matériaux de Strasbourg). We are all very glad to welcome them for their 3-month internships. Within SPECIFIC POLYMERS, Romain's main mission is directed toward the synthesis of functional building blocks and polymers for the development of our R&D products. Margot is providing support to SPECIFIC POLYMERS ANALYSES on the development of our analysis projects.



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