POLYMER PROCESSING

APT houses the only dedicated pilot and industrial scale processing R&D facility in Ireland. Our extensive processing capabilities include:

- Injection Moulding (various tonnages, Twin Shot and Micro-Moulding)
- Compression Moulding
- Single and Twin Screw Extrusion,
- Tube, Profile, Film Extrusion
- Compounding
- Blow Moulding
- Thermoforming

APT makes these facilities available to a range of clients across numerous sectors and provides services such as Trial Runs, Compounding, Material Modification, R&D and Masterbatching.

"APT IS THE LEADING HUB FOR POLYMER RESEARCH AND DEVELOPMENT IN IRELAND, WITH AIT PLAYING A KEY ROLE IN SUPPORTING THE IRISH POLYMER AND PLASTICS INDUSTRY FOR MORE THAN 30 YEARS."

APT
Applied Polymer Technologies

APT Ireland, Applied Polymer Technology Gateway,
Research Hub,
Athlone Institute of Technology,
Dublin Rd, Athlone, Ireland.

Web: www.aptireland.ie

Snap Midlands 090 644 4779

Ireland's EU Structural Funds Programmes 2007 - 2013
Co-funded by the Irish Government and the European Union

EUROPEAN SOCIAL FUND

HEA
Higher Education Authority
An tÚdarás um Ard-Oideachas

ENTERPRISE IRELAND

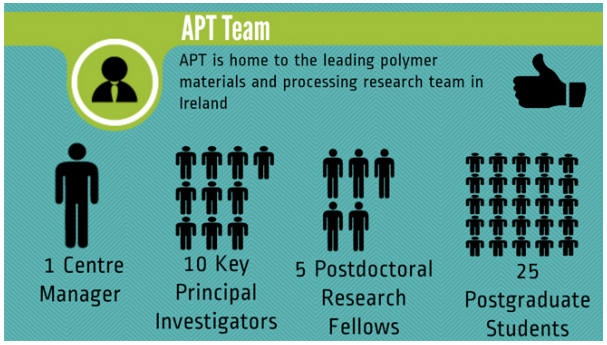
APT
Applied Polymer Technologies

AIT Institiúid Teicneolaíochta Bhaile Átha Luain
Athlone Institute of Technology

TECHNOLOGY GATEWAYS
delivering solutions for industry
an Enterprise Ireland network

APT IRELAND

The APT Gateway is based on the Athlone IT campus and is part of the Technology Gateway Network, (www.technologygateway.ie), a nationwide resource for industry based in the IoTs delivering solutions on near to market problems for industrial partners.



"APT IS PROVIDING SOLUTIONS FOR COMPANIES USING PLASTICS MATERIALS ACROSS THE MEDICAL, COMPOSITE, RECYCLING AND PHARMACEUTICAL SECTORS."

APT provides industry with access to:

- Pilot and Production scale Injection Moulding, Blow Moulding, Thermoforming, Extrusion and Compounding lines.
- Advanced Analytical Facilities for materials research, testing and troubleshooting
- Design, Rapid Prototyping and Micro-Moulding Capabilities

"WORKING WITH APT HAS ALLOWED MERGON TO LEVERAGE THE EXTENSIVE EXPERTISE AND TEST EQUIPMENT AVAILABLE WITHIN THE RESEARCH INSTITUTE TO DEVELOP MATERIAL AND PROCESS IMPROVEMENTS IN ORDER TO REMAIN AT THE FOREFRONT OF TECHNOLOGY IN THE AUTOMOTIVE, INDUSTRIAL AND HEALTHCARE SECTORS."

– Michael Daly, Mergon International.

APT offers independent, reliable and cost effective test services for troubleshooting and product / process development

- Our testing expertise includes troubleshooting, safety, quality control, research and development, design engineering and evaluation, prototype testing and validation, and product benchmark testing.
- We analyze thousands of different client products and materials every year. Our scientists, engineers, chemists, and technologists are highly qualified professionals with years of industrial experience. They use state-of-the-art instrumentation to provide a full range of quality, product safety, materials and research analysis and testing services.
- Tests can be performed on raw material, product, product lines, prototype creations and services either in our laboratories, in the field, or in our clients' own manufacturing facilities.
- A Broad spectrum of industries utilize our testing services annually including automotive, industrial, consumer, medical, aerospace and pharmaceutical clients.

CASE STUDY

Mergon International

In order to remain competitive Mergon has undertaken a variety of projects with AIT to reduce raw material costs either though the incorporation of low cost fillers, reducing the density of the moulded parts or through the use of recycled polymers. These components are introduced into the polymer raw material through a compounding process. Once the materials have been homogeneously combined, they are injection moulded into test specimens in-house prior to running a battery of polymer characterization techniques.

How did APT Deliver the Solution for Industry?

APT successfully identified novel methods which can be utilized to reduce raw material costs. APT continues to develop these methods in order to produce a commercially ready additive for on-going manufacturing use.

Impact for the Company

Mergon works in a highly competitive manufacturing industry and is constantly under pressure from low cost economies. In the context of the research carried out at APT these research findings have allowed Mergon to stay ahead of their competitors and remain the supplier of choice of some of the world's most recognized brands.