Projects and Products Portal for Leonardo da Vinci

Increasing the knowledge base of the European polymer industry to create a competitive edge when using new conductive polymers

UK/09/LLP-LdV/TOI/163_251

http://www.adam-europe.eu/adam/project/view.htm?prj=4934

Project Information

Title:	Increasing the knowledge base of the European polymer industry to create a competitive edge when using new conductive polymers
Project Number:	UK/09/LLP-LdV/TOI/163_251
Year:	2009
Project Type:	Transfer of Innovation
Status:	completed
Country:	UK-United Kingdom
Marketing Text:	The overall objective of iPolyCond was to develop training materials and resources for the benefit of European plastics converters, to increase their knowledge base and understanding of conductive plastic materials.
Summary:	Conductive polymers are breakthrough materials that will help to support the transformation of the plastics processing sector, addressing key problems through radically innovative solutions with more efficient and sustainable approaches. iPolyCond aims to embed the necessary skills within European SME plastic converters to take full advantage of the potential of these advanced and emerging technologies. It has focussed on the needs of SMEs and provided EU plastics converters with the tools and resources for effectively improving their knowledge base, competitiveness and innovativeness.
Description:	The overall objective of iPolyCond has been to develop training materials and resources for the benefit of European plastics converters, to increase their knowledge base and understanding of conductive plastic materials. Conductive polymers are breakthrough materials that will help to support the transformation of the plastics processing sector, addressing key problems through radically innovative solutions with more efficient and sustainable approaches. iPolyCond is based on the results of PolyCond (NMP2-CT-2005-515835), a 4-year European funded project that developed eco-friendly, cost effective and high added value conductive plastic composites which are radically innovative, knowledge-based and sustainable for protection against the effects of Electromagnetic Interference (EMI) and Electrostatic (ESD). The materials developed allow the SME sector to expand their product range into new applications by offering materials with an expanded range of physical and electrical properties. However, there is currently limited information and training resources available for SMEs wanting to use these new plastics which iPolyCond addresses. iPolyCond has integrated the available state-of-the-art scientific knowledge, working knowledge and experience of the consortium to develop, write and test industry-specific training materials and resources. By transferring the content and results of PolyCond, such as case studies, best practice, Library of Information and experience and knowledge of the consortium, the project has produced a Handbook and Training Manual covering (but not restricted to): Carbon Nanotubes, Health and Safety, REACH, processing, datasheets, part design and mould considerations, compounding etc. A consortium has been drawn together of European RTOs, SMEs and trade associations, bringing together a wealth of expertise and resources within the areas of: raw materials, compounding, processing, product manufacture, training, technology transfer, materials science, conferences, industrial workshops and technical and scientific publishing. All these organisations have a high profile and reputation for excellence within the target group. The overall impact of iPolyCond is to increase the knowledge of European plastics converters on conductive polymer materials and products, which will in turn gain a competitive advantage for the industry sector, and in particular SMEs. Furthermore, the Handbook and Training Manual will help traditional less RTD intensive

Project Information

organisations and manufacturing sectors to understand how to use the new developed materials and technologies therefore increasing their innovativeness and competitiveness.

Themes: *** Labor market
*** Continuous training
** Enterprise, SME

Sectors: *** Manufacturing
** Professional, Scientific and Technical Activities

Product Types: website
teaching material
others
material for open learning

Product information: The project has produced a handbooklet which summarises the state of the art in conductive polymers and the types of applications they are used for. The handbooklet has 20 pages and is available in seven languages - English, German, French, Spanish, Dutch, Finnish and Hungarian.

A training manual entitled "An Introduction to Conductive Polymer Composites" is also available from Smithers Rapra publications in printed and ebook format and has 190 pages. English language only.

Projecthomepage: www.ipolycond.org

Project Contractor

Name:	Smithers Rapra Technology Ltd
City:	Shrewsbury
Country/Region:	Shropshire, Staffordshire
Country:	UK-United Kingdom
Organization Type:	research institution
Homepage:	http://www.rapra.net

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Fax:	
E-mail:	jack.bashian@rapra.net
Homepage:	http://www.rapra.net/

Coordinator

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Organization Type:	research institution
Homepage:	http://www.rapra.net

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Fax:	
E-mail:	jack.bashian@rapra.net
Homepage:	http://www.rapra.net/

Partner

Partner 1

Name:	TBA Electro Conductive Products Ltd.
City:	Rochdale
Country/Region:	Lancashire
Country:	UK-United Kingdom
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.tbaecp.co.uk

Partner 2

Name:	British Plastics Federation
City:	London
Country/Region:	London
Country:	UK-United Kingdom
Organization Type:	association/non-governmental organisation
Homepage:	http://www.bpf.co.uk

Partner 3

Name:	European Plastics Converters
City:	Brussels
Country/Region:	Bruxelles Cap, Brussel Hof
Country:	BE-Belgium
Organization Type:	association/non-governmental organisation
Homepage:	http://www.plasticsconverters.eu

Partner 4

Name:	Faperin S.L.
City:	Alicante
Country/Region:	Comunidad Valenciana
Country:	ES-Spain
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.faperin.com

Partner

Partner 5

Name:	Betase BV
City:	Barchem
Country/Region:	Gelderland
Country:	NL-Netherlands
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.betase.nl

Partner 6

Name:	VTT Valtion Teknillinen Tutkimuskeskus
City:	Espoo
Country/Region:	Etelä-Suomi
Country:	FI-Finland
Organization Type:	research institution
Homepage:	http://www.vtt.fi

Partner 7

Name:	Magyar Tudomanyos Akademia Kemiai Kutatokozpont
City:	Budapest
Country/Region:	Közép-Magyarország
Country:	HU-Hungary
Organization Type:	research institution
Homepage:	http://www.chemres.hu

Partner 8

Name:	Promolding BV
City:	Den Haag
Country/Region:	Zuid-Holland
Country:	NL-Netherlands
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.promolding.nl

Partner

Partner 9

Name:	Asociacion de Investigacion de Materiales Plasticos y Conexas
City:	Valencia
Country/Region:	Comunidad Valenciana
Country:	ES-Spain
Organization Type:	research institution
Homepage:	http://www.aimplas.es

Project Files

10-03-25 iPolyCond at http www.mundoplast.pdf

http://www.adam-europe.eu/prj/4934/prj/10-03-25%20iPolyCond%20at%20http%20%20%20www.mundoplast.pdf

iPolycond on www.mundoplast.com

10-05 iPolyCond at AIMPLAS bulletin April 2010 Flash.pdf

http://www.adam-europe.eu/prj/4934/prj/10-05%20iPolyCond%20at%20AIMPLAS%20bulletin%20April%202010%20Flash.pdf

AIMPLAS Bulletin April 2010

AIMPLAS Bulletin October 2010.jpg

http://www.adam-europe.eu/prj/4934/prj/AIMPLAS%20Bulletin%20October%202010.jpg

AIMPLAS Bulletin October 2010

Banner at K Show (BPF).jpg

http://www.adam-europe.eu/prj/4934/prj/Banner%20at%20K%20Show%20%28BPF%29.jpg

Banner at K Show (BPF)

Betase-geleidende-polymeercomposieten-4feb10.pdf

http://www.adam-europe.eu/prj/4934/prj/Betase-geleidende-polymeercomposieten-4feb10.pdf

Electromagnetic shielding with conducting polymer composites

BPF Press Release.pdf

http://www.adam-europe.eu/prj/4934/prj/BPF%20Press%20Release.pdf

BPF Press Release

BvM-digitale-nieuwsbrief-mrt-2010.pdf

http://www.adam-europe.eu/prj/4934/prj/BvM-digitale-nieuwsbrief-mrt-2010.pdf

BvM Newsletter March 2010

EU Project Benchmarks Press Release.doc

http://www.adam-europe.eu/prj/4934/prj/EU%20Project%20Benchmarks%20Press%20Release.doc

EU Project Benchmarks Press Release

EU Projects ezine Jul 2011.pdf

http://www.adam-europe.eu/prj/4934/prj/EU%20Projects%20ezine%20Jul%202011.pdf

EU Projects ezine March 2011 - iSmithers.pdf

http://www.adam-europe.eu/prj/4934/prj/EU%20Projects%20ezine%20March%202011%20-%20iSmithers.pdf

EU Projects ezine March 2011 - iSmithers

iPolyCond Postcard 1_FINAL.pdf

http://www.adam-europe.eu/prj/4934/prj/iPolyCond%20Postcard%201_FINAL.pdf

iPolyCond Postcard - January 2010

Project Files

iPolyCond Project Kicks.pdf

http://www.adam-europe.eu/prj/4934/prj/iPolyCond%20Project%20Kicks.pdf

iPolyCond Project Kicks

iPolyCond Project releases Questionnaire.pdf

http://www.adam-europe.eu/prj/4934/prj/iPolyCond%20Project%20releases%20Questionnaire.pdf

iPolyCond Project releases Questionnaire

iPolyCond Webinars.pdf

http://www.adam-europe.eu/prj/4934/prj/iPolyCond%20Webinars.pdf

iPolycond Webinars

iSmithers Ezine - Sample Chapter Pages January 2011.pdf

http://www.adam-europe.eu/prj/4934/prj/iSmithers%20Ezine%20-%20Sample%20Chapter%20Pages%20January%202011.pdf

iSmithers Ezine - Sample Chapter Pages January 2011

iSmithers lead new Conductive Polymers Project.pdf

http://www.adam-europe.eu/prj/4934/prj/iSmithers%20lead%20new%20Conductive%20Polymers%20Project.pdf

Press Release - iSmithers Lead New Conductive Polyner Project

iSmithers Projects Ezine Dec 2010.pdf

http://www.adam-europe.eu/prj/4934/prj/iSmithers%20Projects%20Ezine%20Dec%202010.pdf

iSmithers Projects Ezine Dec 2010

Polish Edition of MacPlas 'Tworzywa' .pdf

http://www.adam-europe.eu/prj/4934/prj/Polish%20Edition%20of%20MacPlas%20%27Tworzywa%27%20.pdf

Polish Edition of MacPlas 'Tworzywa'

PolyCond-publication-Eddy-Brinkman.pdf

http://www.adam-europe.eu/prj/4934/prj/PolyCond-publication-Eddy-Brinkman.pdf

PolyCond: Electromagnetic Shielding with Conducting Polymers

Postcard at K Show (BPF).jpg

http://www.adam-europe.eu/prj/4934/prj/Postcard%20at%20K%20Show%20%28BPF%29.jpg

Postcard at K Show (BPF)

Poster at K Show (BPF).jpg

http://www.adam-europe.eu/prj/4934/prj/Poster%20at%20K%20Show%20%28BPF%29.jpg

Poster at K Show (BPF)

Poster iPolycond Promolding for ECNP Conference .pdf

http://www.adam-europe.eu/prj/4934/prj/Poster%20iPolycond%20Promolding%20for%20ECNP%20Conference%20.pdf

Poster iPolycond Promolding for ECNP Conference

Project Files

Press Release introduction to conductive polymers.pdf

http://www.adam-europe.eu/prj/4934/prj/Press%20Release%20introduction%20to%20conductive%20polymers.pdf

Final Press Release

Smart Polymers Ezine.pdf

http://www.adam-europe.eu/prj/4934/prj/Smart%20Polymers%20Ezine.pdf

Smart Polymers Ezine

Website Launch ezine2.pdf

http://www.adam-europe.eu/prj/4934/prj/Website%20Launch%20ezine2.pdf

Website Launch ezine

Website launch Press Release.pdf

http://www.adam-europe.eu/prj/4934/prj/Website%20launch%20Press%20Release.pdf

Website Launch Press Release 29/03/10

Products

1 iPolyCond Conductive Polymers booklets

2 An Introduction to Conductive Polymer Composites

Product 'iPolyCond Conductive Polymers booklets'

Title:	iPolyCond Conductive Polymers booklets
Product Type:	teaching material
Marketing Text:	This 20 page booklet provides an overview of conductive polymers and their applications. It is aimed as an introductory tool for SMEs wishing to learn more about this exciting development in polymer processing and is a valuable tool for educating customers on the possible new uses of these materials.
Description:	A Handbooklet which introduces conductive polymers to processors and end users and provides an overview of their properties and uses, processing and design considerations, and applications in everyday product use.
Target group:	SMEs and organisations involved in the sales, converting and production and end users of polymer products.
Result:	A 20 page handbooklet which describes the latest developments in and applications of conductive polymer composites.
Area of application:	Plastics manufacturing.
Homepage:	http://www.ipolycond.org/
Product Languages:	Dutch French English Finnish Hungarian German Spanish

product files

iPolyCond-Handbooklet-Dutch.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-Dutch.pdf
iPolyCond Handbooklet - Dutch

iPolyCond-Handbooklet-English.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-English.pdf
iPolyCond Handooklet - English

iPolyCond-Handbooklet-Finnish.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-Finnish.pdf
iPolyCond Handbooklet - Finnish

iPolyCond-Handbooklet-French.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-French.pdf
iPolyCond Handbooklet - French

iPolyCond-Handbooklet-German.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-German.pdf
iPolyCond Handbooklet - German

iPolyCond-Handbooklet-Hungarian.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-Hungarian.pdf
iPolyCond Handbooklet - Hungarian

iPolyCond-Handbooklet-Spanish.pdf

http://www.adam-europe.eu/prj/4934/prd/1/1/iPolyCond-Handbooklet-Spanish.pdf
iPolyCond Handbooklet - Spanish

product files

Product 'An Introduction to Conductive Polymer Composites'

Title:	An Introduction to Conductive Polymer Composites
Product Type:	teaching material
Marketing Text:	An Introduction to Conductive Polymer Composites provides information on conductive materials (plastics and composites), testing of these materials, processing and mould design and end use applications. It is aimed at anyone who wants to get a good all-round introduction to this rapidly developing new area in plastics manufacturing.
Description:	This 190 page training manual was developed in response to a defined need for information on the latest developments in conductive polymer composites from the industry and their customers. It covers the latest technical developments in these materials along with manufacturing and processing information and end use applications.
Target group:	SMEs and other organisations in the plastics processing supply chain and their customers (end users of the converted plastic).
Result:	190 page training manual
Area of application:	Plastics and polymer manufacturing
Homepage:	www.ipolycond.org
Product Languages:	English

product files

iPolycond Handbook - Contents.pdf

http://www.adam-europe.eu/prj/4934/prd/2/1/iPolycond%20Handbook%20-%20Contents.pdf
Contents pages for An Introduction to Conductive Polymer Composites