

# Production, application and markets of poly(lactic acid) in flexible packaging

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10.00 am, Room 1-030 DICAM ground floor  
School of Engineering and Architecture, via Terracini 28



**SHORT SUMMARY:** NatureWorks is currently expanding Ingeo film offer by targeting barrier film and sealable LDPE film replacement. The flexible packaging industry has grown around the use of multi-materials laminates. No one material was able to provide barrier and heat seal at same time. The new Ingeo based barrier film provides simultaneously high barrier and heat seal and allows the replacement of three layers with a two layers structure. The film has been treated with functional coatings to enhance improved gas barrier properties. When barrier requirements are severe and the use of a traditional three layers structure is mandatory, Ingeo film can still offer a solution satisfying environmental criteria, by minimizing the use of raw materials, and optimizing production costs. Ingeo down-gauged films may be used as sealant layers, replacing LDPE film, providing pouch rigidity despite the lower film thickness and allowing pouches to be produced on high speed sealing equipment. Less packaging weight and clear financial benefits in terms of cost without compromising shelf life

Short c.v.

Stefano Cavallo is the Business Development Manager with NatureWorks LLC.

NatureWorks LLC is a company headquartered in Minneapolis, USA.

NatureWorks LLC is a leading company in the production of polylactides biopolymers, made from annually renewable resources and commercialized under tradename Ingeo™.

Major markets for polylactide biopolymers are Flexible Packaging, rigid packaging and food-service-ware.

Stefano has been with NatureWorks LLC in different roles for the last 17 years.

Before joining NatureWorks he worked in technical and marketing roles for fifteen years with plastic packaging companies E.V.C., Solvay and Safta.

Stefano received a degree in Chemistry from the University of Trieste in Italy and has an education in management and marketing.

He operates out of NatureWorks office in Milan, Italy.