



Taghleef Industries S.p.A.

For immediate release

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NATIVIA™ PLA films and EXTENDO™ barrier BOPP films feature the best protection against migration of mineral oils

Study conducted by the Fraunhofer Institute for Process Engineering and Packaging proves the excellent barrier properties of EXTENDO™ and NATIVIA™ films against mineral oil migration.

EXTENDO™ biaxially oriented polypropylene (BoPP) and NATIVIA™ bio-based biaxially oriented PLA feature an extremely high barrier against mineral oils, preventing their migration from recycled paper and carton overwraps into packaged food. This is as good as the protection offered by polyester and is significantly better than that offered by Acrylic and PVDC-coated BoPP films. This has been confirmed by a study commissioned by Taghleef Industries and carried out by the Fraunhofer Institute for Process Engineering and Packaging, Freising, Germany (IVV).

IVV tested several commercial packaging films for Taghleef Industries, in terms of their barriers towards mineral oil components. Aside from EXTENDO™ and NATIVIA™ films, standard BoPP films, as well as a 12µm standard BoPET reference film, were examined. The probes were tested for their potential as a functional barrier against mineral oil components under the typical packaging and compliance test environment (40°C). Similar to BoPET films, EXTENDO™ films show permeation rates that are equal or under the detection limit of the test equipment used. "In terms of its very high barrier against mineral oil components, they can be assessed as equivalent," explained IVV. NATIVIA™ films have shown the same good results.

Acrylic/PVDC-coated BoPP films were also examined. In terms of their mineral oil barrier, the NATIVIA™ and EXTENDO™ films are significantly more advanced than similar BoPP films.

A summary of the IVV report can be accessed via the EXTENDO™ website at www.extendo.com.

EXTENDO™ transparent, white and metalized films are heat sealable and can be used on high-speed packaging machines as monoweb as well as in laminates. Printing,



Via Enrico Fermi, 46 - 33058 S. Giorgio di Nogaro (UD) Italy

Tel. +39 0431 627 111 - Fax +39 0431 627 590 - E-mail: staff@ti-films.com - Web site: www.ti-films.com

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lamination and runability are user-friendly like a standard BOPP, which brings significant advantages to converting companies and food producers in terms of product presentation, logistics and costs. In addition, through their high barrier against oxygen and aromas, EXTENDO™ BoPP films offer optimal product protection and noticeable savings in material for both fresh as well as dry foods.

These films can be used in almost all areas of food packaging: biscuits, cookies, cereals, nuts, dry products, powdered drink mixes and as lidding and flow wrap of meat, poultry and cheese. They are ideally suited for secondary packaging in medical applications.

NATIVIA™ biaxially oriented PLA films are a bio-based and compostable alternative to oil-based packaging films, made from renewable resources (plants) and fully compostable. High gloss, transparency and heat seal ability make NATIVIA™ films the perfect solution for brand owners who wish to communicate their commitment towards the environment and match the consumers' demand for more sustainable products.

Taghleef Industries (*Ti*) is one of the world's largest manufacturers of biaxially oriented polypropylene films (BoPP), cast polypropylene films (CPP) and biaxially oriented polylactic acid films (BoPLA), with manufacturing facilities in Europe, Middle East, Africa, North America and Australia.

To learn more about EXTENDO™ and NATIVIA™ films:

Dr. Ulrich Reiners – Managing Director, Extendo GmbH, Deutschland
Phone: +49 831 51 259 780
Ulrich.Reiners@ex-tendo.com

Paolo Serafin – Sales Manager NATIVIA™ and EXTENDO™, Taghleef Industries SpA, Italy
Phone: +39 0431 62 71 74
Paolo.Serafin@ex-tendo.com

Websites:

www.ex-tendo.com

www.nativia.com

www.ti-films.com