

Monday, 04 May 2009

## **RE: Norner develops World leading innovative flexible packaging**

We have the pleasure to inform that Norner Innovation AS have entered an agreement with our cooperating partner Hosokawa Alpine AG to install a so called MDO line (Mono Directional Orientation) for development of plastic films for flexible packaging and industrial applications in our development centre. The line will be used in both funded R&D projects and outsourced packaging development projects with the industry,

In a MDO line, the film will be heated and stretched which leads to a significant improvement of its strength, stiffness, impact and aesthetic properties like haze and gloss. This allows further development of films with a different balance or new functional properties. The improved properties also allows for making films up to 50% thinner for many end uses with even better properties and thereby new more sustainable packaging with material savings. "This is an exciting technology that will give our customers new opportunities to strengthen their product portfolio. Norner looks forward to upcoming development projects for the film and flexible packaging industry", says Ole Jan Myhre, Market manager.

The technology from Hosokawa Alpine is especially adopted for extruded blown film which globally is by far the most used technology for film production. This gives a perspective of a significant development potential which Norner is proud to take part in.

Norner has one of Europe's most comprehensive independent test and development centres for plastic films and flexible packaging. The experts are respected internationally at producers and suppliers in this industry for their competence and global experience. Norner carries out a wide range of commissioned development and technology services for the film and plastics value chain. This includes development of new film recipes, trials on our industrial scale extruders, various tests and analysis of performance and troubleshooting. The installation of the MDO line will therefore be an important new resource for our international customers.

"This is the first installation of its kind at an independent development centre like ours and gives the industry new unique opportunities for product innovations. We hereby confirm our commitment to the industry and the offer we give for technology services to our international customer base" says Managing Director Tine Rørvik.

With best regards  
Ole Jan Myhre  
Market Manager