Celplast Metallized Products Limited - Sustainability Initiatives & Activities

Celplast Metallized Products Limited has developed Barrier Sealants, which act as both a barrier layer and a sealant layer in a flexible package. This allows converters to eliminate a layer, improving source reduction. We have also been developing thinner gauge metallized films for both area cost savings and source reduction.

Finally, we have commercialized our ENVIROMET line of high barrier metallized PLA films, as well as CERAMIS PLA, a high barrier clear SiOx-coated PLA film. These films provide converters with barrier properties required to meet the needs of many food packaging applications. Not only are these films made from a renewable resource (corn), the nanolayer of inert, inorganic barrier coatings (aluminum or SiOx) do not compromise the PLA film's ability to pass the ASTM D6400 compostability standard.

CELPLAST METALLIZED PRODUCTS LIMITED

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Previously, PLA film has not been a viable option for barrier food packaging due to its inherently poor barrier properties. By applying its proprietary FOILMET™ high barrier metallizing process to PLA film, Celplast Metallized Products (Toronto, ON) has been able to achieve OTR values of 0.5 cc/100 in^2/day, and WVTR values of 0.25 g/100 in^2/day. This high barrier PLA film is suitable for a wide range of high barrier food packaging applications, and has been commercialized as ENVIROMET™. Metallizing does not compromise the biodegradability of PLA film, allowing ENVIROMET™ to meet the ASTM D6400 composting standard. For more information, please visit us at cmp.celplast.com, contact us at 416-293-4330 x-256, or E-mail dante@celplast.com.