



**MULTI-PLASTICS EXTRUSIONS, INC.**

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## **22DG OPS Performance Statement**

Dear Envelope Window Film Customer:

Please be advised that Multi-Plastics Extrusion's **22DG OPS** window film has been evaluated per ASTM standard D6954-04 titled *Standard Guide for Exposure of Plastics in the Environment by a Combination of Oxidation and Biodegradation*, and has demonstrated a significant degree of physical property change associated with the degradation of the base polymer by environmental factors. These changes include the reduction in film tensile properties, molecular weight, and mechanical integrity required to meet the standards identified as **Tier One** requirements. Furthermore, degraded **22DG OPS** film material was then subjected to a controlled laboratory test to determine the rate and degree of biodegradation by microorganisms normally found in the environment. This **Tier Two** test protocol was validated via an independent third party laboratory, certified in respirometric oxygen uptake testing, that significant biodegradation of the base polymer has occurred at a rate of approximately 8.5% over a 90 day test period as measured against a positive control.

Please also be advised that detailed **22DG OPS** window film testing results and certification letters are being kept on file as required by existing film manufacturing guidelines and MPX internal ISO 9001:2008 procedures for the application as an envelope window film, and that it is deemed fully suitable for commercial use in this application.

Sincerely,

**MULTI-PLASTICS EXTRUSIONS, INC.**

Phil Pappajohn  
Director of Research and Development