

REPORT SUMMARY

CLIENT: WELLS PERFORMANCE MATERIALS LIMITED

SAMPLE REGISTRATION DATE: 06/04/2023

TESTING COMPLETION DATE: 25/01/2025

SAMPLE DESCRIPTION: Polyethylene film containing 1wt% Reverte™ BT96638 additive masterbatch

QUANTITY RECEIVED: 1 box

TEST CONDUCTED: ASTM D6954 - Exposing and Testing Plastics that Degrade in the Environment by a Combination of Oxidation and Biodegradation

REPORT NO.: MUM/001293B/2023

LABORATORY NUMBER: 16473265

REPORT DATE: 25/01/2025

The Polyethylene film containing 1wt% Reverte™ BT96638 additive masterbatch sample was received from Wells Performance Materials Ltd. located at Emerald Way, Stone Business Park, Stone, Staffordshire. ST15 0SR UK, for testing as per ASTM D6954 specifications. The testing commenced on April 06, 2023, and concluded on January 25, 2025.

The sample successfully passed the Tier 1 abiotic degradation test, achieving a reduction in molecular weight to below 5000 Daltons. The residue from Tier 1 was then processed for Tier 2, where it passed the biodegradability test as per ASTM D5338 with a 91.41% degradation in 180 days. The gel content generated in Tier 1 was tested and found to be below the prescribed limit. Additionally, the concentration of all regulated metals was tested and found to be within the limits specified by the Environmental Protection Agency (EPA) requirement. The residues from biodegradation were tested according to OECD test protocols and showed no adverse effects on seedling emergence, seedling growth, or in the earthworm acute toxicity test.

Authorized Signatory



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