



ANALYSIS REPORT

General Information

Analysis number: Q-111215F145

Cliente: Copobras

Analysis period: 11-12-2015/18-03-2016

Test Description: Accelerated Photodegradation

Sample Description

Meat Tray – EPS.P-life SMC PS

Objective

Accelerated Degradation based on temperature of the structure and determination of its shelf life time. According to; “Tensile Test” ASTM D3826-98, “Standard Practice for Exposure of Photodegradable Plastics” ASTM D5208.

Laboratory equipment

Universal Testing Machine and QUV accelerated weathering tester. Cycle: Continues of UV at 50°C and 0.70 W/m²

Results and conclusions:

It is considered that the period of useful life ends by losing more than 50% of the initial force supported, that took place after 37 days of exposure. Therefore, it is determined that **a shelf life of Sample is considered to be 92 months (7 years with 8 months) under 30°C warehouse environment.**

Based on ASTM D5510-94 is considered that the sample has reached its accelerated degradation, when it support less than 5% of force that happened after 78 days of study, therefore we concluded that this sample has a **degradation time of 195 months (16 years with 3 months).**

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