



# TECHNICAL REPORT ON THE THICKNESS TESTING OF A POLYMER FILM

## Client: CAgroup Pty Ltd

32 Industrial Avenue Thomastown, VIC 3074

Product: H&D Builders Film

## ExcelPlas Job # 11316

274 Wickham Road Highett, VIC 3190

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**09 August 2021**

COMMERCIAL-IN-CONFIDENCE



### **1. Objective**

The objective of this study is to measure the thickness of black builders' film sample.

### **2. Samples Supplied**

One sample of Medium Impact black builders' film was supplied by Srikanth Vegi  
Srikanth.vegi@cagroup.com.au for thickness measurement.

The identification of the sample was:

Medium Impact, Black builders' film sample as supplied.  
H&D Builders Film



### **3. Testing Undertaken**

The thickness testing was undertaken according to AS/NZS 4347.9 and the pass/fail criteria in AS 2870.

EXCELPLAS POLYMER TECHNOLOGY  
Film Thickness (AS\_NZS 4347.9)  
Report Pro-forma V1 20170616 RP



Testing was carried out at ExcelPlas Highett laboratory.

#### **4. Method of Sampling.**

Twelve specimens were selected randomly across the width of the film sample supplied.

#### **5. Thickness Measuring Apparatus.**

The thickness measuring apparatus used for the testing was a dead weight thickness gauge Mitutoyo/BT Technology - S/N BT071209620356D and a 6.45 mm diameter pressure foot with presser foot load of 165.98g.

#### **6. Testing Methodology**

The testing was conducted according to AS 2870 and AS/NZS 4347.9

#### **7. Conditioning.**

The specimens were conditioned at 22°C for more than 8 hours prior to testing.



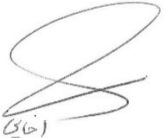
**8. Test Results**

| <b>Sample Identification</b>        | <b>Black Film Sample</b> |
|-------------------------------------|--------------------------|
| <b>Specimen 1 (mm)</b>              | 0.187                    |
| <b>Specimen 2 (mm)</b>              | 0.193                    |
| <b>Specimen 3 (mm)</b>              | 0.189                    |
| <b>Specimen 4 (mm)</b>              | 0.193                    |
| <b>Specimen 5 (mm)</b>              | 0.188                    |
| <b>Specimen 6 (mm)</b>              | 0.187                    |
| <b>Specimen 7 (mm)</b>              | 0.209                    |
| <b>Specimen 8 (mm)</b>              | 0.213                    |
| <b>Specimen 9 (mm)</b>              | 0.192                    |
| <b>Specimen 10 (mm)</b>             | 0.192                    |
| <b>Specimen 11 (mm)</b>             | 0.199                    |
| <b>Specimen 12 (mm)</b>             | 0.194                    |
| <b>Mean Thickness (mm)</b>          | <b>0.195</b>             |
| <b>Standard Deviation (mm)</b>      | <b>0.01</b>              |
| <b>Coefficient of Variation (%)</b> | <b>0.04</b>              |

**9. Conclusion**

In accordance with the requirements of AS 2870 – 2011 5.3.3.3(a), the mean average thickness of the film tested is 195µm, which is within the requirements of 180µm to 200µm. There are Zero readings below 170µm.



| Prepared By                                                                                    | Reviewed By                                                                        |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|               |  |
| Date: 09 August 2021                                                                           | Date: 09 August 2021                                                               |
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