



केन्द्रीय लुगदी एवं कागज अनुसंधान संस्थान
Central Pulp & Paper Research Institute

CPPRI/ SPPM Div/2022-23/R-125

An autonomous organisation under the administrative control of
Ministry of Commerce & Industry, Govt. of India
(Registered under Societies Act)

27.01.2023

TEST REPORT

| | |
|-----------------------|--|
| Sample received from: | CHEMLINE INDIA LIMITED, POST BIGHAN, DHATURI, Sonipat, Haryana, 131039 |
| Ref. No. & Date: | Email dated 19.12.2022 |
| Sample Detail: | Sample 1 (Heat sealable and Barrier Coated paper for cup stock coated with AQUA COAT-WPC-4502) |
| Testing Required: | Repulpability test of Sample 1 (Heat sealable and Barrier Coated paper for cup stock coated with AQUA COAT-WPC-4502) |

Procedure:

For repulpability test, 50 gm (O.D. basis) of sample 1 (AQUA COAT-WPC-4502) was torn into pieces and disintegrated in Laboratory Pulp Disintegrator. 5 sets of experiments were conducted to ensure the repeatability. The conditions maintained during disintegration are as follows:

| Parameters | Conditions |
|---------------------|------------|
| Consistency (Cy), % | 2.5 |
| Temp, °C | Ambient |
| Slushing time, min. | 10 |
| RPM | 3000 |

The pulp thus obtained was passed through sommerville vibratory screen having 0.15 mm slot and was tested for fibre yield and reject content. The results are summarized below:

Result:

| Recovered Fibre Yield (%) | Reject (%) | Other losses (Fines & fillers) % |
|---------------------------|------------|----------------------------------|
| 90-91 | 1.5 | 7.5-8.5 |

Remarks:

- (i) No chemical has been used during experiment.
- (ii) The maximum achievable fibre recovery is around 91% at 2.5% consistency.
- (iii) The reject content in sample 1 (AQUA COAT-WPC-4502) is 1.5 %, which is mainly coating material .
- (iv) Sample 1 (AQUA COAT-WPC-4502) is easily repulpable.
- (v) Hansheets made of screened pulp are clean.

End of Test Report

(Tested by)

Kuldeep Kumar Sharma
JRF

(Reviewed by)

Dr. Shubhang Bhardwaj
Scientist B

(Authorised Signatory)

Satya Dev Negi
Scientist E-I & Incharge
SPPM Division

PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR - 247 001 (U.P.) INDIA
Tel. Direct (0132) 2714050, Tel. EPABX (0132) 2714053, 2714061, 2714062
Fax (0132) 2714052, website : www.cppri.res.in
Email : director.cppri@gmail.com

BASE OFFICE

A-55, 3rd Floor, Gujranwala Town, Part-1, Opposite Vinayak Hospital, Delhi-110 009
Phone - 9412650703, 9910909169