



Paper Paperboard Characteristics 3ed

American Society for Testing Materials

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the text 'American Society for Testing Materials'.

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Paper and Paperboard American Society for Testing and Materials, 1963 *3-D Characterization of the Structure of Paper and Paperboard and Their Application to Optimize Drying and Water Removal Processes and End-Use Applications*, 2004 The three dimensional structure of paper materials plays a critical role in the paper manufacturing process especially via its impact on the transport properties for fluids Dewatering of the wet web pressing and drying will benefit from knowledge of the relationships between the web structure and its transport coefficients The structure of the pore space within a paper sheet is imaged in serial sections using x ray micro computed tomography The three dimensional structure is reconstructed from these sections using digital image processing techniques The structure is then analyzed by measuring traditional descriptors for the pore space such as specific surface area and porosity A sequence of microtomographs was imaged at approximately 2 m intervals and the three dimensional pore fiber structure was reconstructed The pore size distributions for both in plane as well as transverse pores were measured Significant differences in the in plane XY and the transverse directions in pore characteristics are found and may help partly explain the different liquid and vapor transport properties in the in plane and transverse directions Results with varying sheet structures compare favorably with conventional mercury intrusion porosimetry data Interestingly the transverse pore structure appears to be more open with larger pore size distribution compared to the in plane pore structure This may help explain the differences in liquid and vapor transport through the in plane and transverse structures during the paper manufacturing process and during end use application Comparison of Z directional structural details of hand sheet and commercially made fine paper samples show a distinct difference in pore size distribution both in the in plane and transverse direction Method presented here may provide a useful tool to the papermaker to truly engineer the structure of paper and board tailored to specific end use applications

The difference in surface structure between the top and bottom sides of the porous material i.e. two sidedness due to processing and raw material characteristics may lead to differences in end use performance The measurements of surface structure characteristics include thickness distribution surface volume distribution contact fraction distribution and surface pit distribution This complements our earlier method to analyze the bulk structure and Z D structure of porous materials As one would expect the surface structure characteristics will be critically dependent on the quality and resolution of the images This presents a useful tool to characterize and engineer the surface structure of porous materials such as paper and board tailored to specific end use applications This will also help troubleshoot problems related to manufacturing and end use applications This study attempted to identify the optimal resolution through a comparison between 3D images obtained by monochromatic synchrotron radiation X CT in phase contrast mode resolution 1 μ m and polychromatic radiation X CT in absorption mode res 5 μ m It was found that both resolutions have the ability to show the expected trends when comparing different paper samples The low resolution technique shows fewer details resulting in lower specific surface area larger pore channels characterized as hydraulic radii and lower tortuosities where differences between samples and principal directions are more difficult to detect The disadvantages of the high resolution images are high cost and limited availability of hard x ray beam time as well as the small size of the sample volumes imaged The results show that the low resolution images can be used for comparative studies whereas the high resolution images may be better suited for fundamental research on the paper structure and its influence on paper properties as one gets more accurate physical measurements In addition pore space diffusion model has been developed to simulate simultaneous

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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web ically when voltage returns the control circuit is completed through the stop button and also a holding contact 2 3 on the starter when starter drops out this contact opens breaking the control circuit until the start button is pressed once again l3 t3 t

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