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""COMPOSITE MULTILAYER COATINGSFOR IMPROVED BARRIER  
PROPERTIESOF PACKAGING BOARD""; ""Abstract""; ""Introduction"";  
""Paperboard Laminates""; ""Barrier Coating of Paperboard""; ""Water  
Vapour Barrier""; ""Oxygen Barrier""  
""Water Absorption and Surface Hydrophobicity""""Converting of Coated  
Paperboard""; ""Barrier Materials for Paperboard""; ""Synthetic  
Materials""; ""Biobased Materials""; ""Reinforcement of Polymer  
Coatings""; ""Experimental""; ""Substrate""; ""Coating Materials"";  
""Characterization of Composite Formulations""; ""Viscosity""; ""Charge  
Density""; ""Surface Tension of Coating Formulations""; ""Laboratory  
Coating""; ""Water Vapour Transmission Rate""; ""Oxygen Transmission  
Rate""; ""Interaction with Liquid Water""; ""Surface Energy""; ""Surface  
Gloss""; ""Results and Discussion""; ""Viscosity""  
""Charge Density and Zeta Potential""""Wettability of Primary and  
Secondary Layers""; ""Coat Weight and Thickness""; ""Barrier  
Properties""; ""Water Vapour Barrier""; ""Oxygen Barrier""; ""Water  
Absorption and Surface Hydrophobicity""; ""Surface Gloss""; ""Wettability  
Problems and Effects on Barrier Properties""; ""Environmental Aspects  
on Materials Choice""; ""Conclusion""; ""References""; ""SIMULATION OF  
ULTIMATE STRENGTHOF FIBER-REINFORCED COMPOSITES BY MEANSOF  
BRIDGING MICROMECHANICS MODEL""; ""Abstract""; ""1. Introduction"";  
""2. Stress Analysis""; ""2.1. Lamina Analysis""  
""2.1.1. Basic Formulae of the Bridging Model""

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