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to reasonably low temperature; 2.4.3 Organic-based TFTs with processing temperatures below 200 oC; 2.4.4 Use of Teonex in flexible displays; 2.5 Concluding Remarks; Acknowledgements
References3 Flexible Glass Substrates; 3.1 Introduction; 3.2 Display Glass Properties; 3.2.1 Overview of display glass types; 3.2.2 Glass properties; 3.3 Manufacturing of Thin ""Flexible"" Glass; 3.3.1 Float and downdraw technology for special glass; 3.3.2 Limits; 3.4 Mechanical Properties; 3.4.1 Thin glass and glass/plastic substrates; 3.4.2 Mechanical test methods for flexible glasses; 3.5 Improvement in Mechanical Properties of Glass; 3.5.1 Reinforcement of glass substrates; 3.6 Processing of Flexible Glass; 3.6.1 Cleaning; 3.6.2 Separation
3.7 Current Thin Glass Substrate Applications and Trends3.7.1 Displays; 3.7.2 Touch panels; 3.7.3 Sensors; 3.7.4 Wafer-level chip size packaging; References; 4 Barrier Layer Technology for Flexible Displays; 4.1 Introduction; 4.2 Development of Thin Film Vapor Barrier Systems; 4.2.1 Organic electronics: packaging needs; 4.2.2 Single-layer gas barrier films on polymeric substrates; 4.2.3 Multilayer gas barrier films for OLEDs; 4.3 Measurement Techniques; 4.3.1 Steady-state transmission tests; 4.3.2 The calcium test; 4.3.3 Defect characterization; 4.4 Theories of Vapor Barrier Permeation
4.5 Deconvolution of Experimental Data4.5.1 Transient and steady-state permeation models; 4.5.2 Methods to determine in situ properties; 4.5.3 Implications for multilayer barrier systems; 4.6 Discussion; 4.7 Conclusions; Acknowledgements; References; 5 Transparent Conducting Oxide Materials and Technology; 5.1 Introduction; 5.2 Materials Selection and Characterization; 5.2.1 Transparent conducting materials classes: why oxides?; 5.2.2 Transparent conducting oxides: general considerations; 5.3 Indium-Based Binary Oxides; 5.3.1 Background; 5.3.2 Crystalline indium tin oxide
5.3.3 Amorphous indium tin oxide

Sommario/riassunto

Flexible displays are currently one of the most researched topics within the flat panel display community. They promise to change our display-centric world by replacing bulky rigid devices with those that are paper-thin and can be rolled away or folded up when not in use.The field of flexible flat panel displays is truly unique in the sense that it is interdisciplinary to the display community, combining basic principles from nearly all engineering and science disciplines.Organized to bring the reader from the component level, through display system and assembly, to

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