

superior performance and cost-effectiveness markings. This book provides excellent resource for unskilled or novice pavement markers as well as professionally trained line marking operators and explains all factors that affect the achievement of thermoplastic pavement marking materials. An additional information about AS4049.2 and AS2009:2006 Standards applicable to pavement markings are included in appendix for technicians and engineers to select and inspect materials for performance. This study involved an evaluation of large-scale installations of both hydrocarbon and alkyd extruded thermoplastics as lane delineation on sections of interstate highways having open-graded surfaces. The objective of the study was to evaluate the performance of thermoplastics as lane delineation and to compare the performance of hydrocarbon versus alkyd formulations. Data were collected on a periodic basis over an 18-month period. Data collection consisted of daytime observations of the appearance and durability of the thermoplastic material along with reflectivity measurements using a portable retroreflectometer. The evaluation revealed that both the hydrocarbon and alkyd extruded thermoplastic material maintained their appearance, durability, and reflectivity over the 18-month study period. It was found that the alkyd formulation maintained a higher level of reflectivity than the hydrocarbon formulations. Based on performance, it was recommended that extruded thermoplastic continue to be used as a lane delineation material, and its use be expanded to other bituminous pavements on high volume roadways. Either formulation could be used, but it was recommended that the installations on the open-graded pavements continue to be monitored to determine if either formulation performs substantially better on a long-term basis.

Handbook of Plasticizers, Third Edition, is an essential professional reference, providing information that enables R&D scientists, production chemists, and engineers the information they need to use plasticizers more effectively, and to avoid certain plasticizers in applications where they may cause health or material durability problems. Plasticizers are vital to the plastics industry, particularly in improving the properties of materials such as PVC. Plasticizers are commonly added to complex mixtures containing a variety of materials, so successful incorporation requires a broad understanding of the mechanisms of plasticizer action, and compatibility with different materials and blends. There is a large selection of commercial plasticizers, and various environmental issues which impact on selection decisions. The book discusses new and historical approaches to the use of plasticizers, explaining mechanisms of plasticizers' action and their behavior in plasticized systems. It goes into detail on the use of plasticizers in a range of specific polymers, polymer blends, and other industrial products. This includes coverage of the impact of plasticizers on processing. George Wypych provides the data and know-how from the most recent sources and updated information required by engineers and scientists working in the plastics industry and the many industry sectors that use plastics in their products. The book covers the uses, advantages, and disadvantages of plasticizers, historical and theoretical background, their effects on process conditions, and health, safety, and environmental issues. Enables materials scientists, chemists and engineers to use plasticizers more effectively, and avoid health and safety or performance risks Includes detailed coverage of the impact of plasticizers on polymers, and processing methods Provides the broad background of information required to select the correct plasticizer for any application Covers the uses, advantages, and disadvantages of plasticizers, including historical and theoretical background

Buku informasi harga satuan bahan bangunan di 32 Provinsi di Indonesia berdasarkan harga yang berlaku di tahun 2020, dalam buku ini dimuat daftar harga material bahan bangunan seperti pasir, bata, semen, besi, cat, bahan atap, dan lain-lain terkait konstruksi dan interior serta elektrik yang berbeda di setiap daerahnya, yang dilengkapi dengan harga satuan upah baik pekerja, berbagai tukang dan mandor.

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