

# Aashto M249 Specifications For Thermoplastic Pavement Marking

Thermoplastic Pavement Marking Technology: TPM-Advanced Standard  
Specification for Thermoplastic Pavement Markings in Non Snow Plow  
Areas Method of Determining the Thickness and Uniformity of  
Application for Thermoplastic Pavement Marking Material Field  
Evaluation of a Generic Thermoplastic Pavement Marking  
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Materials Workshops Performance of Thermoplastic Pavement Markings  
Heng-Mo Chu Charles W. Niessner Richard G. Griffin Timothy J. Gates  
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Lane Delineation Durable Pavement Marking Materials Workshops

Performance of Thermoplastic Pavement Markings *Heng-Mo Chu Charles W. Niessner Richard G. Griffin Timothy J. Gates California. Department of Transportation California. Department of Transportation Kenneth R. Agent Brian H. Chollar Kenneth R. Agent Marcia A. McGrath James E. Bryden*

thermoplastic pavement marking materials include spray screed extrusion profile and preform which are considered as 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 research evaluated pavement marking performance and developed useful degradation models for thermoplastic and paint pavement markings which can help north carolina meet the pending fhwa minimum retroreflectivity requirements the impacts of several important factors such as lateral location directionality region and pavement roughness on pavement marking retroreflectivity were evaluated with two large datasets in hand the authors determined whether these factors had significant impacts on marking retroreflectivity image processing techniques were used to analyze pavement marking surface glass bead density the authors were able to explain why paint marking retroreflectivity values degraded over time by evaluating the impact of bead density on paint marking retroreflectivity the research reviewed existing marking retroreflectivity degradation models and developed useful new models for both thermoplastic and paint pavement markings in north carolina the research presented a transportation asset management system framework for estimating the current and future condition of pavement markings the research outcomes enable the north carolina department of transportation to have a better understanding of thermoplastic and paint pavement marking performance which can lead to cost saving by maximizing pavement marking service lifecycles

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

summary of presentations evaluating six pavement marking materials which were given at 5 regional workshops sponsored by the federal highway administration

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