

TRANSPORT FOR NSW (TfNSW)

SPECIFICATION D&C 3359

PROFILE THERMOPLASTIC ROAD MARKING MATERIAL

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REVISION REGISTER

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Transport
for NSW

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CONTENTS

CLAUSE	PAGE
FOREWORD	ii
TfNSW Copyright and Use of this Document.....	ii
Base Specification	ii
1 SCOPE	1
2 STRUCTURE OF THE SPECIFICATION.....	1
2.1 (Not Used)	1
2.2 (Not Used)	1
2.3 (Not Used)	1
2.4 Referenced Documents and Definitions.....	1
3 (NOT USED).....	1
4 SUPPLIER’S QUALITY MANAGEMENT SYSTEM.....	1
5 MATERIAL REQUIREMENTS.....	2
6 PRODUCT CERTIFICATION.....	2
7 PRODUCT IDENTIFICATION.....	2
ANNEXURES 3359/A TO 3359/L – (NOT USED)	3
ANNEXURE 3359/M – REFERENCED DOCUMENTS.....	3
LAST PAGE OF THIS DOCUMENT IS	3

FOREWORD

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BASE SPECIFICATION

This document is based on Specification TfNSW 3359 Edition 3 Revision 1.

TNSW SPECIFICATION D&C 3359

PROFILE THERMOPLASTIC ROAD MARKING MATERIAL

1 SCOPE

This Specification sets out the material requirements for thermoplastic road marking compound suitable for application to the road surface to produce a profile marking which gives an audible/tactile response to vehicle tyre contact.

2 STRUCTURE OF THE SPECIFICATION

This Specification includes a series of annexures that detail additional requirements.

2.1 (NOT USED)

2.2 (NOT USED)

2.3 (NOT USED)

2.4 REFERENCED DOCUMENTS AND DEFINITIONS

Standards, specifications and test methods are referred to in abbreviated form (e.g. AS 2350). For convenience, the full titles are given in Annexure 3359/M.

The term “the Supplier” means the supplier of the product covered by the scope of this Specification.

3 (NOT USED)

4 SUPPLIER’S QUALITY MANAGEMENT SYSTEM

The Supplier must establish and maintain a Quality Management System complying with AS/NZS ISO 9001 as a means of ensuring that the product conforms to this Specification.

Provide evidence verifying compliance with this Clause.

5 MATERIAL REQUIREMENTS

The thermoplastic material must comply with the requirements of AS 4049.2 except as modified below:

(a) Softening Point

When determined in accordance with AS 2341.18, the softening point must be not less than 95°C.

(b) Cold Flow

When determined in accordance with AS 4049.2 Appendix I, the cold flow must be no more than 5% at 40°C.

(c) Skid Resistance

When tested in accordance with AS 4049.2 Appendices K and L at any time up to 3,000,000 vehicle passes, the skid resistance value of beaded unprofiled base material must be not less than 45.

(d) Retroreflectivity

When tested in accordance with AS 4049.2 Appendices K and M, at any time up to 3,000,000 vehicle passes, the retroreflectivity of a beaded line of the unprofiled base material must be greater than 100 mcd/lux/m².

6 PRODUCT CERTIFICATION

The Supplier must provide, prior to delivery, a certificate of compliance verifying that the product complies with Clause 5 of this Specification, together with the results of the relevant tests. The tests must be carried out by a laboratory accredited by NATA to carry out such tests.

Certification must relate only to the formulation on which the tests were made and must be valid for not more than three years. New certification will be required whenever changes in product formulation are made.

7 PRODUCT IDENTIFICATION

Mark each container clearly with the following information:

- (i) Name of the supplier;
- (ii) Product name and/or number;
- (iii) Net contents in kilograms;
- (iv) Batch number or date of manufacture;
- (v) Application temperature and maximum safe heating temperature;
- (vi) Instructions and warnings for use;
- (vii) Statutory requirements.

ANNEXURES 3359/A TO 3359/L – (NOT USED)

ANNEXURE 3359/M – REFERENCED DOCUMENTS

Refer to Clause 2.4.

Australian Standards

AS 2341	Methods of testing bitumen and related roadmarking products
AS 4049.2	Paints and related materials – Pavement marking materials – Thermoplastic pavement marking materials – For use with surface applied glass beads
AS/NZS ISO 9001	Quality Management Systems – Requirements