

**EXPRESS TERMS
FOR
PROPOSED CHANGES TO THE
2005 BUILDING ENERGY EFFICIENCY STANDARDS
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6, SECTION 118(i)3
CALIFORNIA ENERGY COMMISSION**

COOL ROOF COATINGS PERFORMANCE REQUIREMENTS

DOCKET
05-BSTD-1
DATE
REC'D.

LEGEND FOR EXPRESS TERMS

1. Existing language - all such language appears in regular text.
2. New amendments or code language - all such language appears underlined.
3. Repealed text - all such language appears in ~~strikeout~~.

EXPRESS TERMS

Section 101(b) – Add the following definitions:

ASTM D522 is the American Society of Testing and Materials document entitled, "Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings," 2001 [ASTM D522-93a(2001)].

ASTM D1653 is the American Society of Testing and Materials document entitled, "Standard Test Methods for Water Vapor Transmission of Organic Coating Films," 2003 (ASTM D1653-03).

ASTM D2370 is the American Society of Testing and Materials document entitled, "Standard Test Method for Tensile Properties of Organic Coatings," 2002 [ASTM D2370-98(2002)].

Notation

Authority: Public Resources Code Sections 25213 and 25402 (a) and (b)

Reference(s): Public Resources Code Sections 25213 and 25402 (a) and (b)

Section 118(i)3, Table 118-C

TABLE 118-C MINIMUM PERFORMANCE REQUIREMENTS FOR LIQUID APPLIED ROOF COATINGS

Physical Property	ASTM Test Procedure	Requirement
Initial percent elongation (break)	D 2370	Minimum 60% 0 °F (-18 °C) Minimum 200% 73 °F (23 °C)
<u>Initial percent elongation (break)</u> OR <u>Initial flexibility</u>	<u>D 2370</u> <u>D 522, Test B</u>	<u>Minimum 60% 0 °F (-18 °C)</u> <u>Minimum pass 1" mandrel 0°F (-18°C)</u>
Initial tensile strength (maximum stress)	D 2370	Minimum 100 psi (1.38 Mpa) 73 °F (23 °C) Minimum 200 psi (2.76 Mpa) 0 °F (-18 °C)
Final percent elongation (break) after accelerated weathering 1000 h	D 2370	Minimum 40% 0°F (-18°C) Minimum 100% 73 °F (23 °C)
<u>Final percent elongation (break) after accelerated weathering 1000 h</u> OR <u>Flexibility after accelerated weathering 1000 h</u>	<u>D 2370</u> <u>D 522, Test B</u>	<u>Minimum 40% 0°F (-18°C)</u> <u>Minimum pass 1" mandrel 0°F (-18°C)</u>
Permeance	D 1653	Maximum 50 perms
Accelerated weathering 1000 h	D 4798	No cracking or checking ¹

¹ Any cracking or checking visible to the eye fails the test procedure.

Notation

Authority: Public Resources Code Sections 25213 and 25402 (a) and (b)

Reference(s): Public Resources Code Sections 25213 and 25402 (a) and (b)

Appendix 1-A – Add the following references under American Society for Testing and Materials:

ASTM D522-93a(2001) Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings (2001)

ASTM D1653-03 Standard Test Methods for Water Vapor Transmission of Organic Coating Films (2003)

ASTM D2370-98(2002) Standard Test Method for Tensile Properties of Organic Coatings (2002)

Notation

Authority: Public Resources Code Sections 25213 and 25402 (a) and (b)

Reference(s): Public Resources Code Sections 25213 and 25402 (a) and (b)