

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Future Labs, LLC 124 Lone Wolf Drive, Madison, MS 39110

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical and Mechanical Testing (As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 Initial Accreditation Date:

Issue Date:

Expiration Date:

July 07, 2020

July 03, 2022

August 31, 2024

Accreditation No.:

Certificate No.:

80918

L22-475

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com



Issue: 07/2022

Certificate of Accreditation: Supplement

Future Labs, LLC

124 Lone Wolf Drive, Madison, MS 39110 Contact Name: Mr. David Entrekin Phone: 601-855-7407

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ^F	Thermoplastic Pavement Marking Material	Sampling Thermoplastic Pavement Marking Material	ASTM D7307 AASHTO T250 sec. 3	N/A
		Sample Meltdown & Preparation	ASTM D7308 AASHTO T250 sec. 4	N/A
		Binder Content	ASTM D4797 AASHTO T250 sec. 5 AASHTO M249 4.2 Table 1	15.01 % to 49.99% (± 0.01%)
		Glass Bead Content	ASTM D4797 AASHTO T250 sec. 6 AASHTO M249 4.2 Table 1	15.01 % to 59.99% (± 0.01%)
		Titanium Dioxide Determination	ASTM D5381 & D4764 AASHTO T250 sec. 9 AASHTO M249 sec. 4.2	Up to 24.99% (± 0.01%)
		Heavy Metal Content	ASTM F2617 & F2980	1 ppm to 1 999 ppm (± 1 ppm) Note: ppm ⇔ mg/kg
Mechanical ^F	Thermoplastic Pavement Marking Material and Glass Beads / Retroreflective Optics	Glass Bead Grading Analysis	ASTM D7681& D7971 AASHTO T250 sec. 7 AASHTO PP74 AASHTO M249 sec. 3.1.4	Up to 99.99% (± 0.01%)
	Thermoplastic	Drying Time /	AASHTO M249 sec. 4.3.2	Up to 15 minutes
	Pavement Marking Material	set time Reflectance, Color, Yellowness Index Flowability	ASTM D4960 ASTM E1349 ASTM E313 or D1925 AASHTO T250 sec. 8 AASHTO M249 sec. 4.3.1 & 4.3.7	(± 1 minute) ((L*, YE or YI) 0.01 to 99.99 (± 0.01) (x, y) 0.0001 to 0.9999 (± 0.0001) (Y) 0.01% to 99.99% (± 0.01%) (a* or b*) (-)127.99 to (+)126.99 (± 0.01) 0.01% to 49.99%
		Low Temperature	AASHTO M249 sec. 4.3.6 AASHTO T 250 sec. 12 AASHTO M 249 sec. 4.3.3	(± 0.01%) Pass / Fail
		Stress Resistance	AASIII O WI 247 SEC. 4.3.3	



Issue: 07/2022



Certificate of Accreditation: Supplement

Future Labs, LLC

124 Lone Wolf Drive, Madison, MS 39110 Contact Name: Mr. David Entrekin Phone: 601-855-7407

Accreditation is granted to the facility to perform the following testing:

NGE (WHERE
OPRIATE) AND ECTION LIMIT
1499 psi
)
1.9 in-lb
ı-lb)
121 ℃
99 (± 0.01)
9.9%
)
)
,
16°C
10 C
9.99%
%)
,
1.59
Fail
Fail
- · · ·
Fail
Fail
raii
Fail



Certificate of Accreditation: Supplement

Future Labs, LLC

124 Lone Wolf Drive, Madison, MS 39110 Contact Name: Mr. David Entrekin Phone: 601-855-7407

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Mechanical ^F	Glass Beads /	Alternative Moisture	AASHTO T 346, section 13	Pass or Fail
	Retroreflective	Resistance	AASHTO M 247, sec 4.4	
	Optics	Coating Test		
	Glass Beads /	Alternative	AASHTO T 346, section 14	Pass or Fail
	Retroreflective	Adherence Test –	AASHTO M 247, sec 4.4	
	Optics	Dansyl Chloride		

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.

