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AMRL Proficiency Sample Program

Hot Mix Asphalt Gyratory 37/38

University of Arkansas

Fayetteville, Arkansas

PSP Enrollment#: 3879

Created by sgwill@uark.edu on 7/21/2014

Your results have been received. Thank you for using our online submission system. Please [print](#) the following information for your records.

Testing Parameters

1. Maximum Specific Gravity (Gyratory)

Maximum Specific Gravity

Sample 37 2.567	Sample 38 2.514
Version: T209-2012	Version: T209-2012
Type of Vacuum Measuring Device: Absolute Pressure Gage (non-mercury)	Type of Vacuum Measuring Device: Absolute Pressure Gage (non-mercury)
Method of Agitation: Mechanical Method of Agitation, Vibratory if "Mechanical":	Method of Agitation: Mechanical Method of Agitation, Vibratory if "Mechanical":
Vibration Frequency: halfway	Vibration Frequency: halfway
Manufacturer: Gilson	Manufacturer: Gilson
(Agitation):	(Agitation):
Model (Agitation): SGA-5	Model (Agitation): SGA-5
Thermometric Device: Mercury Thermometer	Thermometric Device: Mercury Thermometer
Manufacturer (Thermometric):	Manufacturer (Thermometric):
Model	Model
(Thermometric):	(Thermometric):
Procedure Used: Weighing in Water	Procedure Used: Weighing in Water

2. Bulk Specific Gravity Saturated Surface-Dry Method (Gyratory)

Bulk Specific Gravity (Saturated Surface-Dry Method)

Sample 37 2.475	Sample 38 2.409
Version: T166-2013	Version: T166-2013

3. Bulk Specific Gravity Using Vacuum Sealing Method

Bulk Specific Gravity (Vacuum Sealing Method)

Sample 37 2.468	Sample 38 2.407
Version: T331-2013	Version: T331-2013
Punctured Bag - Sample A: Yes	Punctured Bag - Sample A: Yes
Punctured Bag - Sample B: No	Punctured Bag - Sample B: No

4. Hot Mix Asphalt Superpave Gyratory Compactor

Height During Compaction after 8 gyrations

Sample 37 125.6	Sample 38 124.1
Version: T312-2012	Version: T312-2012
Calculation using bulk specific gravity by: T166 / D2726	Calculation using bulk specific gravity by: T166 / D2726
Compaction Device: Pine	Compaction Device: Pine
Manufacturer: Instruments	Manufacturer: Instruments
Compaction Device Model: AFG2AS	Compaction Device Model: AFG2AS
Date compaction device: 7/8/14	Date compaction device: 7/8/14
last verified (Height):	last verified (Height):
Date compaction device: 7/8/14	Date compaction device: 7/8/14
last verified (Angle):	last verified (Angle):
Date compaction device: 7/8/14	Date compaction device: 7/8/14
last verified (Pressure):	last verified (Pressure):
Type of Angle Verification Device: Internal	Type of Angle Verification Device: Internal

5. Hot Mix Asphalt Superpave Gyratory Compactor

Height During Compaction after 100 gyrations

Sample 37 116.6	Sample 38 116.1
Version: T312-2012	Version: T312-2012
Calculation using bulk specific gravity by: T166 / D2726	Calculation using bulk specific gravity by: T166 / D2726
Compaction Device: Pine	Compaction Device: Pine
Manufacturer: Instruments	Manufacturer: Instruments
Compaction Device Model: AFG2AS	Compaction Device Model: AFG2AS
Date compaction device: 7/8/14	Date compaction device: 7/8/14
last verified (Height):	last verified (Height):
Date compaction device: 7/8/14	Date compaction device: 7/8/14
last verified (Angle):	last verified (Angle):

Date compaction device 7/8/14
last verified (Pressure):
Type of Angle Verification Internal
Device:

Date compaction device 7/8/14
last verified (Pressure):
Type of Angle Verification Internal
Device:

6. Hot Mix Asphalt Superpave Gyratory Compactor

Percent of Maximum Specific Gravity after 8 gyrations

Sample 37
89.5

Sample 38
89.6

Version: T312-2012

Version: T312-2012

Calculation using bulk T166 / D2726
specific gravity by:
Compaction Device Pine
Manufacturer: Instruments
Compaction Device Model: AFG2AS
Date compaction device 7/8/14
last verified (Height):
Date compaction device 7/8/14
last verified (Angle):
Date compaction device 7/8/14
last verified (Pressure):
Type of Angle Verification Internal
Device:

Calculation using bulk T166 / D2726
specific gravity by:
Compaction Device Pine
Manufacturer: Instruments
Compaction Device Model: AFG2AS
Date compaction device 7/8/14
last verified (Height):
Date compaction device 7/8/14
last verified (Angle):
Date compaction device 7/8/14
last verified (Pressure):
Type of Angle Verification Internal
Device:

7. Hot Mix Asphalt Superpave Gyratory Compactor

Percent of Maximum Specific Gravity after 100 gyrations

Sample 37
96.4

Sample 38
95.8

Version: T312-2012

Version: T312-2012

Calculation using bulk T166 / D2726
specific gravity by:
Compaction Device Pine
Manufacturer: Instruments
Compaction Device Model: AFG2AS
Date compaction device 7/8/14
last verified (Height):
Date compaction device 7/8/14
last verified (Angle):
Date compaction device 7/8/14
last verified (Pressure):
Type of Angle Verification Internal
Device:

Calculation using bulk T166 / D2726
specific gravity by:
Compaction Device Pine
Manufacturer: Instruments
Compaction Device Model: AFG2AS
Date compaction device 7/8/14
last verified (Height):
Date compaction device 7/8/14
last verified (Angle):
Date compaction device 7/8/14
last verified (Pressure):
Type of Angle Verification Internal
Device:

Laboratory Comments:

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