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AMRL Proficiency Sample Program

Hot Mix Asphalt Ignition Oven 27/28

University of Arkansas
Fayetteville, Arkansas
PSP Enrollment#: 3879
Created by sgwill@uark.edu on 12/20/2013

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

Testing Parameters

1. Asphalt Content by Ignition Method

Initial (as received) Mass of AMRL Pre-Mixed HMA Sample (for information only)

	Sample 27	**Sample 28**
	1606.5	1603.3
Version:	T308-2010	T308-2010
Oven Manufacturer:	*NCAT / Barnstead Thermolyne*	*NCAT / Barnstead Thermolyne*
Oven Model:	*F85930*	*F85930*
Set Point Temperature for Convection-Type Ignition Ovens (°C):	*538*	*538*
Burn Profile Used for Direct IR Irradiation-Type Ovens:		
Length of Time for Ignition Process (in min) - 27 A:	*45*	*45*
Length of Time for Ignition Process (in min) - 28 B:	*51*	*51*

2. Asphalt Content by Ignition Method

Correction Factor for Asphalt Binder Content (for information only)

	Sample 27	**Sample 28**
	0.17	0.17
Version:	T308-2010	T308-2010
Oven Manufacturer:	*NCAT / Barnstead Thermolyne*	*NCAT / Barnstead Thermolyne*
Oven Model:	*F85930*	*F85930*
Set Point Temperature for Convection-Type Ignition Ovens (°C):	*538*	*538*
Burn Profile Used for Direct IR Irradiation-Type Ovens:		
Length of Time for Ignition Process (in min) - 27 A:	*45*	*45*
Length of Time for Ignition Process (in min) - 28 B:	*51*	*51*

3. Asphalt Content by Ignition Method

Corrected Asphalt Binder Content

	Sample 27	**Sample 28**
	4.28	4.31
Version:	T308-2010	T308-2010
Oven Manufacturer:	*NCAT / Barnstead Thermolyne*	*NCAT / Barnstead Thermolyne*
Oven Model:	*F85930*	*F85930*
Set Point Temperature for Convection-Type Ignition Ovens (°C):	*538*	*538*
Burn Profile Used for Direct IR Irradiation-Type Ovens:		
Length of Time for Ignition Process (in min) - 27 A:	*45*	*45*
Length of Time for Ignition Process (in min) - 28 B:	*51*	*51*

4. Mechanical Analysis of HMA

Mass Removed by Washing Over the 75-µm (No. 200) Sieve

	Sample 27	**Sample 28**
	8.0	7.5
Version:	T30-2013	T30-2013

Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

5. Mechanical Analysis of HMA
Total Material Passing the 12.5-mm (1/2 in.) Sieve

Sample 27		**Sample 28**	
93.9		93.3	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

6. Mechanical Analysis of HMA
Total Material Passing the 9.5-mm (3/8 in.) Sieve

Sample 27		**Sample 28**	
80.7		82.6	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

7. Mechanical Analysis of HMA
Total Material Passing the 4.75-mm (No. 4) Sieve

Sample 27		**Sample 28**	
61.8		65.0	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

8. Mechanical Analysis of HMA
Total Material Passing the 2.36-mm (No. 8) Sieve

Sample 27		**Sample 28**	
37.1		37.9	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

9. Mechanical Analysis of HMA
Total Material Passing the 1.18-mm (No. 16) Sieve

Sample 27		**Sample 28**	
26.5		24.1	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

10. Mechanical Analysis of HMA
Total Material Passing the 600-µm (No. 30) Sieve

Sample 27		**Sample 28**	
18.0		15.6	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

11. Mechanical Analysis of HMA
Total Material Passing the 300-µm (No. 50) Sieve

Sample 27		**Sample 28**	
12.6		11.2	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

12. Mechanical Analysis of HMA
Total Material Passing the 150-µm (No. 100) Sieve

Sample 27		**Sample 28**	
9.9		9.1	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

13. Mechanical Analysis of HMA
Total Material Passing the 75-µm (No. 200) Sieve

Sample 27		**Sample 28**	
8.32		7.80	
Version:	T30-2013	*Version:*	T30-2013
Washing Procedure:	*Manual*	*Washing Procedure:*	*Manual*
Time for Wash:		*Time for Wash:*	

Laboratory Comments:

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