

LAMPIRAN

Lampiran 1. Kehilangan Berat Dan Minyak

Penimbangan	Benda Uji (gram)		
	I	II	III
Massa Aspal Sebelum Pemanasan	50.2	51	49.8
Massa Aspal Setelah Pemanasan	50	50.8	49.6
Kehilangan Berat (gram)	0.00398	0.00392	0.00402
Kehilangan Berat (%)	0.398	0.392	0.402
Rata-rata (%)	0.397		

Lampiran 2. Pengujian Penetrasi Aspal

NO	Benda Uji	Nilai Penetrasi					Rata-Rata
		1	2	3	4	5	
1	A	64	66	65	63	66	64.8
2	B	59	62	61	60	66	61.6
3	C	63	61	62	60	64	62
4	D	69	64	68	63	67	66.2
5	E	63	66	60	63	65	63.4

Lampiran 3. Pengujian Titik Lembek Aspal

No	Suhu Yang Diamati (C)	Waktu (detik)						Titik Lembek (C)					
		I	II	III	IV	V	VI	I	II	III	IV	V	VI
1	5	0	0	0	0	0	0	0	0	0	0	0	0
2	10	1'06"		37"		34"							
3	15	1'48"		1'46"		1'25"							
4	20	2'58"		2'48"		2'22"							
5	25	3'59"		4'03"		3'28"							
6	30	5'20"		4'53"		4'40"							
7	35	6'27"		6'11"		5'32"							
8	40	7'40"		7'11"		6'37"							
9	45	8'40"		8'34"		7'40"							
10	50	9'48"	9'54"	9'13	9'30"	8'56"	8'47"	48	49	49.5	50	52	51
Rata-rata								49.5					

Lampiran 4. Pengujian Berat Jenis Aspal

Penimbangan	Symbol	Benda UJI (gram)			
		I	II	III	IV
Piknometer + Aspal	(C)	34.058	30.001	35.064	30.121
Piknometer	(A)	30.759	26.594	30.813	26.591
Masa Aspal	(C-A)	3.299	3.407	4.251	3.53
Piknometer + Air	(B)	81.294	75.734	81.073	75.791
Piknometer	(A)	30.759	26.594	30.813	26.591
Masa Air	(B-A)	50.535	49.14	50.26	49.2
Piknometer + Aspal + Air	(D)	81.503	75.917	81.195	75.996
Piknometer + Aspal	(C)	34.058	30.001	35.064	30.121
Masa Air	(D-C)	47.445	45.916	46.131	45.875
Berat Jenis	-	1.068	1.057	1.029	1.062
Berat Jenis Rata-Rata	-	1.054			

Lampiran 5. Pengujian Daktilitas

No	Benda Uji	Hasil Pengamatan
1	I	147
2	II	147
3	III	147
4	IV	148,5
5	V	148,5
Rata-rata		147

Lampiran 6. Pengujian Berat Jenis Balas

NO	Benda Uji	Berat Dalam Air (g)	Berat SSD (g)	Berat Kering Oven (g)	BJ Bulk	BJ SSD	BJ Semu	BJ Rata - Rata	(%) Penyerapan
1	I	3143.3	5013.4	4968.2	2.66	2.68	2.72	2.69	0.9
2	II	3129.9	5026.2	4986.6	2.63	2.65	2.69	2.66	0.8
3	III	3119.3	5022.1	4974.4	2.61	2.64	2.68	2.65	1.0
4	IV	3150.6	5024.5	4989.1	2.66	2.68	2.71	2.69	0.7
5	V	3124.3	5028.5	4960.2	2.60	2.64	2.70	2.65	1.4
Rata - rata					2.63	2.66	2.70	2.66	0.95

Lampiran 7. Pengujian Berat Jenis Karet

NO	Benda Uji	Berat Dalam Air (g)	Berat SSD (g)	Berat Kering Oven (g)	BJ Bulk	BJ SSD	BJ Semu	BJ Rata - Rata	(%) Penyerapan
1	I	125.3	1015	1000.6	1.12	1.14	1.14	1.14	1.4
2	II	125.9	1013.1	1000.5	1.13	1.14	1.14	1.14	1.3
3	III	129.4	1016.4	1000.9	1.13	1.15	1.15	1.14	1.5

Lampiran 8. Pengujian Kadar Lumpur

No	Benda Uji	Berat Semula (g)	Berat Kering Setelah Pencucian (g)	(%) Kadar Lumpur
1	I	4951.1	4860.8	1.8
2	II	4936.9	4827.2	2.2
3	III	4963.8	4870.3	1.9
4	IV	4977.8	4900	1.6
5	V	4950.1	4857.2	1.9
Rata-rata				1.87383721

Lampiran 9. Pengujian Keausan Balas

No	Benda Uji	Berat Semula (g)	Berat Setelah Abrasi (g)	Keausan Balas (%)
1	I	5019.3	4154	17.24
2	II	5006.4	4138.7	17.33
3	III	5009.7	4087	18.42
Rata-rata				17.663

Lampiran 10. Data Pengujian Tekan Balas

No.	Regangan (%)	Tegangan (kg/mm ²)	Elongation (mm)	Force (kg)
0	0.0000	0.0000	0.00	0.0000
1	0.1733	0.003563	0.52	160.35
2	0.3333	0.006253	1.00	281.4
3	0.5067	0.009817	1.52	441.75
4	0.6667	0.012697	2.00	571.35
5	0.8400	0.015707	2.52	706.8
6	1.0000	0.019807	3.00	891.3
7	1.1733	0.02545	3.52	1145.25
8	1.3333	0.029687	4.00	1335.9
9	1.5067	0.035487	4.52	1596.9
10	1.6667	0.03848	5.00	1731.6
Peak	2.5573	0.06562	7.72	2952.9
Break	2.5573	0.062993	7.72	2834.7

Lampiran 11. Data Pengujian Kuat Tekan Balas-Aspal

No.	Regangan (%)	Tegangan (kg/mm ²)	Elongation (mm)	Force (kg)
0	0.00	0	0.00	0
1	0.17	0.0064	0.52	286.80
2	0.33	0.0100	1.00	448.65
3	0.51	0.0140	1.52	630.45
4	0.67	0.0163	2.00	731.85
5	0.84	0.0217	2.52	974.85
6	1.00	0.0273	3.00	1227.00
7	1.17	0.0312	3.52	1402.35
8	1.33	0.0365	4.00	1641.15
9	1.51	0.0432	4.52	1945.95
10	1.67	0.0493	5.00	2217.45
Peak	1.733	0.0510	5.20	2294.10
Break	1.733	0.0490	5.20	2204.40

Lampiran 12. Data Pengujian Kuat Tekan Balas-Karet

No.	Regangan (%)	Tegangan (kg/mm ²)	Elongation (mm)	Force (kg)
0	0.00	0	0.00	0
1	0.17	0.000943	0.52	42.45
2	0.33	0.001783	1.00	80.25
3	0.51	0.002493	1.52	112.20
4	0.67	0.003140	2.00	141.30
5	0.84	0.004203	2.52	189.15
6	1.00	0.005500	3.00	247.50
7	1.17	0.006597	3.52	296.85
8	1.33	0.007473	4.00	336.30
9	1.51	0.009220	4.52	414.90
10	1.67	0.010930	5.00	491.85
Peak	5.60	0.067933	16.80	3057.00
Break	5.61	0.065427	16.84	2944.20

Lampiran 13. Hasil Pengujian Kuat Tekan Balas-Karet-Aspal

No.	Regangan (%)	Tegangan (kg/mm ²)	Elongation (mm)	Force (kg)
0	0.00	0	0.00	0
1	0.17	0.00291	0.52	130.95
2	0.33	0.004403333	1.00	198.15
3	0.51	0.005923333	1.52	266.55
4	0.67	0.007096667	2.00	319.35
5	0.84	0.008456667	2.52	380.55
6	1.00	0.00961	3.00	432.45
7	1.17	0.011233333	3.52	505.50
8	1.33	0.01246	4.00	560.70
9	1.51	0.013896667	4.52	625.35
10	1.67	0.014656667	5.00	659.55
Peak	6.12	0.071933333	18.36	3237.00
Break	6.12	0.069713333	18.36	3137.10