Influence of Binder Modifiers Using the Poker Chip Method

AMIT BHASIN NOVEMBER 2022, SEAUPG MEETING, RALEIGH, NORTH CAROLINA

Οι	Itline
1.	What prompted this study
2.	What we knew / past research
3.	What we developed
4.	What we found
	claimer: ults are from various studies and do not constitute a specification or endorsement from OT.
iversit	y of Texas at Austin

Outline

The University of Texas at Austi

1. What prompted this study

- 2. What we knew / past research
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1. What prompted this study Rolling Thin-Film Oven (Tex-505-C) 1.0 Mass change, T 240, Max, % Dynamic shear, T 315: G'hin(S), Min, 2 20 kPa, Max, 5 00 kPa', Test temperature (8: 10 radisec, "C MSCR, T350, Recovery, 0.1 kPa, High Terruserbay, % Minl 1. Background 58 64 70 20 20 30 20 30 40 20 Surrogate for... Flash point, T.48, Min, *C Veccelly, T.316¹³ + Max, 3.0 Pas, test temperature, *C Dynamic shear, T.315¹ G*lav(3), Min, 1.00 APa, Max, 2.00 APa¹, Test temperature @ 10 radiesc, *C Elastic recovery, DK084, 50*F, % Meri Original Binder 230 135 70 58 64 30 50 Surrogate for... Presence of elastomeric polymer Surrogate for... Better cracking performance

1. What prompted this study 1. Background Better cracking performance 2. Same PG but different performance 3. Tests until failure

























SEAUPG 2022

Raleigh, NC

11/16/2022

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	4. What we found	d / Results			
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	Modifier concentration	Modifier type	Binder grade + aging	RAP	Field
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 Diverse locations / weather 	er conditions
- Binder contents (%)	COD COCCO O </th
- Layer thickness (in)	O O
- Total HMA thickness (in)	0 0
- Truck traffic	































