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## PBA-5

<u>Asphalt Binder Performance Issue</u>	<u>Asphalt Binder Test Method</u>	<u>AASHTO Test Method</u>	
Low temperature thermal cracking.	Penetration (4C [39.2F] 200g,60s), dmm RTFO Aged residue (Note 1)	T-49	15 min
	Ductility (7.2C [45F],1 cm/min), cm RTFO Aged Residue (Note 2)	T-51	
High ambient temperature mix stability (tenderness, rutting).	Absolute Viscosity (60C[140F]), P. (Note 3) Original Binder	T-202	2000 min
	RTFO Aged Residue	T-202	4000 min
Consistency during construction: - Pumpability, handling - Mix tenderness.	Kinematic Viscosity (135C [275F]), cSt Original Binder	T-201	2000 max
	RTFO Aged Residue	T-201	400 min
Hardening during the hot mix paving process.	Absolute Viscosity Ratio (60C[140F]) RTFO Viscosity/Original Viscosity		4.0 max
Safe Handling.	Flash Point, Cleveland Open Cup, C (F) Original Binder	T-48	232 min (450 min)
Asphalt Binder Purity.	Volubility in Trichloroethylene, %. Original Binder	T-44	99.0 min (Note 4)
Asphalt Cement Internal Compatibility,	Ductility (25C [77 F], 5 cm/min), cm RTFO Aged Residue	T-51	50 min

Note 1. "RTFO Aged Residue" means the asphaltic residue obtained using the Rolling Thin-Film Oven Test ("RTFO Test"), AASHTO T-240.

Note 2. Use AASHTO T-51 as modified by Washington DOT (using a special method of applying the release agent).

Note 3. The Absolute Viscosity (60C) of PBA-3, PBA-5 AND PBA-6 will be determined at 1 sec-I using ASTM P-159 (Vol. 4.03, 1985) with Asphalt Institute Vacuum Capillary Viscometer.

Note 4. May be waived if polymer modification interferes with test accuracy.