

State: MARYLAND	Materials: Re: Section 904 - Performance Graded Asphalt Binders and Hot Mix Asphalt
Date Last Reviewed: 03-08-2010	Web Address: www.mdot.state.md.us
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ASPHALT BINDER:

Section 904.02	Description:	PG asphalt binders for mixes containing all virgin materials, recycled asphalt pavement materials, or roofing shingles from manufacturing waste shall conform to AASHTO M 320, Table 1, for the specified performance grade.
	PMA's:	Neat asphalt with elastomer polymer modifier when needed
	Exclusions:	Acid, Air Blown's.

PROPERTY		Test Method AASHTO or Other	Requirements by Performance Graded, PG (Common Grades)			
			64-28	64-22	70-22	76-22
ORIGINAL:						
Flash Point, °C		T 48	230 min.			
Rotational Viscosity, Pa Xs	135°C	T 316	3.0 max.			
Dynamic Shear, kPa (G* /sin δ, 10 rad./sec.)	At grade temperature	T 315	1.0 min.			
RTFOT RESIDUE:						
Mass Loss, %		T 240	1.0 max.			
Dynamic Shear, kPa (G* /sin δ, 10 rad./sec.)	At grade temperature	T 315	2.2 min.			
PAV RESIDUE:		R 28	100°C; 20 hrs; 300 psi			
Dynamic Shear, kPa (G* •sin δ, 10 rad./sec.)	At test temperature	T 315	5,000 max.			
			22°C	25°C	28°C	31°C
Creep Stiffness	At test temperature	T 313	Stiffness 300 max. MPa & m Value 0.300 min.			
			-18°C	-12°C		
Direct Tension, (1mm/min.), % Strain		T 314	Report on C of A			
PG PLUS REQUIREMENTS: None at this time						
NOTES: None.						

