

State: NEW JERSEY	Materials: Re: Section 902.01.01 – Asphalt Binder
Date Last Reviewed: 03-15-2010	Web Address: www.state.nj.us
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ASPHALT BINDER:

Section 902.01.01	Description:	Asphalt binder shall conform to AASHTO M 320, table 1 "Standard Specifications for Performance Graded Asphalt Binder." Grade 64-22 shall be used except that an asphalt of softer grade may be directed to be used when the mixture contains RAP and except where otherwise specified.
	PMA's:	When specified, PG 76-22 asphalt binder shall be storage-stable, pre-blended, homogeneous, polymer modified asphalt binder using Styrene-Butadiene (SB) or Styrene-Butadiene-Styrene (SBS) formulations. Ensure that the binder's rolling thin film oven test (AASHTO T 240) residue has a minimum elastic recovery (ASTM D 6084 Procedure A) of 60 percent when tested at 25 degrees C.
	Exclusions:	None stated.

PROPERTY	Test Method AASHTO or Other	Requirements by Performance Grade, PG (Common Grades)			
		64-22	76-22		
ORIGINAL:					
Specific Gravity		15.6°C	T228	Report	
Flash Point, °C			T 48	230 min.	
Rotational Viscosity, Pa Xs		135°C	T 316	3.0 max.	
Dynamic Shear, kPa (G* / sin *, kPa, 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 *, kPa, 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 *, kPa, 10 rad./sec.)		At test temperature	T 315	5,000 max.	
				25°C 31°C	
Creep Stiffness		At test temperature	T 313	Stiffness 300 max. MPa & m Value 0.300 min.	
				-12°C	
Direct Tension, (1mm/min.), % Strain		At test temperature	T 314	1.0 min.	
				-12°C	
PG PLUS REQUIREMENTS: YES					
RTFOT RESIDUE:					
Elastic Recovery ¹ , %		25°C	D 6084 ¹	---	60 min.
NOTES:					
1. ASTM D 6084; Strain Rate = 2 in./min.; cut hold 1 hour.					

