

State: New Jersey	Materials: Re: Section 902.01.01 - Asphalt Binder
Date Last Reviewed: 5/15/24	Web Address: www.nj.gov/transportation/eng/specs/2019/Division.shtml
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Asphalt Binder		
Section 902.01.01	Highlights	NJDOT implemented AASHTO M332 (MSCR) for modified binders (PG 64E-22) in 2014 and for neat binders (PG 64S-22) in 2022.
	PMA Notes	PG 64E-22 asphalt binder shall be storage-stable and conform to AASHTO M 332 including compliance with the elastic response requirement in Figure 1 of AASHTO R 92.
	Exclusions and Limits	None stated.

New Jersey		Table 1: Requirements for Performance-Graded Asphalt Binders		
Property	Test Method: AASHTO	Requirements by Performance Grade		
		64S-22	64E-22	
ORIGINAL				
Flash Point, °C	T 48	230 min.		
Specific Gravity	15.6°C T 228	Report		
Rotational Viscosity, Pa·s	135°C T 316	3.0 max.		
Dynamic Shear, kPa ($G^*/\sin \delta$, 10 rad./sec)	At Grade Temp. T 315	1.00 min.		
RTFO RESIDUE				
Mass Change, %	T 240	1.00 max.		
MSCR Test temp., °C	T 350	64		
MSCR $J_{nr3.2}$, max., kPa^{-1}		4.5	0.5	
MSCR, J_{nrdiff} , max., %		75 max. (Note 1)		
MSCR, % recovery @ 3.2kPa, min.		(Note 2)		
PAV RESIDUE				
DSR Test Temperature, °C	R 28	100°C, 20 hrs, 300 psi		
DSR Test Temperature, °C	T 315	25		
Dynamic Shear, kPa ($G^* \cdot \sin \delta$, 10 rad./sec.)		6000 max. δ min. 42° (Note 3)	6000 max.	
BBR Test Temperature, °C	T 313	-12		
Creep Stiffness, MPa		300 max.		
M-Value		0.300 min.		
NOTES		<ol style="list-style-type: none"> Not applicable for binders with $J_{nr3.2} < 0.5$ kPa^{-1}. $> 29.371 * (J_{nr3.2})^{0.263}$ - binder grade E must meet the requirements of AASHTO R 92. If $G^* \sin \delta$ is below 5000 the phase angle minimum limit is not required. 		

To ensure the most accurate and current information, the specific agency should be contacted.