

State: Washington, DC	Materials: Re: Section 802.02 - Performance Graded Asphalt
Date Last Reviewed: 5/15/24	Web Address: https://ddot.dc.gov/page/standards-and-guidelines
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Asphalt Binder		
Section 802.02	Highlights	DCDOT fully implemented AASHTO M332 (MSCR) for all grades in 2015.
	PMA Notes	The PG binder for HMA mixes shall be achieved by the use of neat asphalt with elastomer polymer modifications when needed.
	Exclusions and Limits	None stated.

Washington, DC		Table 1: Requirements for Performance-Graded Asphalt Binders		
Property	Test Method: AASHTO	Requirements by Performance Grade		
		64S-22	64H-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	2.0	0.5
MSCR, J_{nrdiff} , max., %		75 max. (Note 1)		
MSCR, % recovery @ 3.2kPa, min.		(Note 2)		
PAV RESIDUE				
DSR Test Temperature, °C	T 315	100°C, 20 hrs, 300 psi		
Dynamic Shear, kPa ($G^* \cdot \sin \delta$, 10 rad./sec.)		25		
BBR Test Temperature, °C		6000 max. δ min. 42° (Note 3)	6000 max.	
Creep Stiffness, MPa	T 313	-12		
M-Value		300 max.		
		0.300 min.		
NOTES		<ol style="list-style-type: none"> Not applicable for binders with $J_{nr3.2} < 0.5$ kPa⁻¹. $>29.371 \cdot (J_{nr3.2})^{0.263}$ - binder grades H and E must meet the requirements of AASHTO R 92. If $G^* \cdot \sin \delta$ 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.