

State: Washington (State)	Materials: Re: Section 9-02 - Bituminous Materials
Date Last Reviewed: 10/30/2025	Web Address: www.wsdot.wa.gov/publications/manuals/fulltext/M41-10/SS.pdf
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Asphalt Binder		
Section 9-02	Highlights	All Performance Graded Binders not included in this chart shall be determined by Table 1 "Performance Graded Asphalt" Specification Chart in AASHTO M 332.
	PMA Notes	None stated.
	Exclusions and Limits	None stated.

Washington		Table 1: Requirements for Performance-Graded Asphalt Binders							
Property	Test Method: AASTHO (T), ASTM (D)	Requirements by Performance Grade (1)							
		52S-28 (2)	58S-22 (2)	58H-22	58V-22	58S-28	64S-28	64H-28	64V-28
ORIGINAL									
Flash Point, °C	T48	230 min.							
Rotational Viscosity, Pa·s	135°C T316	3.0 max.							
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temp. T315	1.00 min.							
RTFO RESIDUE		T240							
Mass Change, %	T240	1.00 max.							
MSCR, J _{nr} @3.2kPa, kPa ⁻¹ , max > min (3)	At Grade Temp. T350	4.5	4.5	2.0 > 0.7	1.0 > 0.5	4.5	4.5 > 2.0	2.0 > 0.7	1.0 > 0.5
MSCR, % Recovery @ 3.2kPa, min.		-	-	-	30	-	20	25	30
MSCR, J _{nr} % diff. (4)		Report							
PAV RESIDUE		R28 100°C, 20 hrs, 2.1 MPa							
Dynamic Shear, kPa (G*·sin δ, 10 rad./sec.)	At Test Temp. T315	16°C	22°C		19°C	22°C			
		6000 max.		6000 max.		6000 max.		6000 max.	
Creep Stiffness, MPa	At Test Temp. T313	-18°C	-12°C			-18°C			
M-Value		300 max.							
		0.300 min.							
NOTES	<ol style="list-style-type: none"> PG S grades are not utilized on WSDOT contracts. PG52S-28, PG58S-22, AND PG58S-28 are used for blending HMA containing RAP and/or RAS to achieve the specified PG grade. Minimum requirements are applicable for High RAP and RAS only. The RTFO J_{nr}diff and the PAV direct tension specifications of AASHTO M 332 are not required. 								

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