

State: Virginia	Materials: Re: Section 210 – Asphalt Materials
Date Last Reviewed: 4/16/2026	Web Address: www.dot.state.va.us
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Asphalt Binder						
Virginia		Table 1: Requirements for Performance-Graded Asphalt Binders				
Property	Test Method: AASHTO (T), ASTM (D)	Requirements by Performance Grade				
		58S-22	64S-22	64H-22	64E-22	76E-28 (HP) (Note 2)
ORIGINAL						
Flash Point, ° C	T48	230 min.				
Rotational Viscosity, Pa·s	135° C T316	3.0 max.				5.0 max.
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temperature T315	1.00 min.				
RTFO RESIDUE						
Mass Change, %	T240	1.00 max.				
MSCR Test Temperature	T350	58° C	64° C			76° C
MSCR, J _{nr} @3.2kPa, max.		4.5		2.0	0.5	0.1
MSCR, % Recovery @ 3.2kPa, min.		N/A			(Note 1)	90
MSCR, J _{nr} % Difference, Max.		75				
PAV RESIDUE						
		R28	100° C, 20 hrs, 300 psi			
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temperature T315	22° C	25° C	25° C	25° C	28° C
		6000 max. (note 3)		6000 max.		
Creep Stiffness, MPa	At Test Temperature T313	-12° C	-12° C	-12° C	-12° C	-18° C
M-Value		300 max.				
		0.300 min.				
NOTES		<ol style="list-style-type: none"> 1. % Rec3.2 > 29.371 Jnr3.2 – 0.263 2. High Polymer Binder shall consist of mixes incorporating a neat asphalt material with a high polymer modification (approximately 7.5%) complying with AASHTO M332 with the exception that MSCR shall have a Jnr3.2 maximum value of 0.1 kPa-1 and the minimum percent recovery shall be 90%. 3. If the intermediate temperature stiffness, G* sin d, is below 5000 kPa, the phase angle minimum limit is not required. If the intermediate temperature stiffness, G* sin d, is between 5000 and 6000 kPa, the intermediate phase angle minimum limit of 42 is required. 				

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