

State: Wisconsin	Materials: Re: Section 455.2.4.1 PG Asphalts
Date Last Reviewed: 2/25/25	Web Address: www.dot.state.wi.us
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Asphalt Binder		
Section 455.2.4.1	Highlights	WIDOT is a member of the Combined States Binder Group (CSBG). WIDOT implemented the use of % Rec3.2 to replace current % recovery testing for all modified binders in 2015. This requirement varies depending on the binder grade and the specified test temperature (see table below). They fully implemented M332 for all grades beginning in 2016.
	PMA Notes	See table below.
	Exclusions and Limits	None.

Wisconsin		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 2)								
Property	Test Method: AASTHO (T), ASTM (D)	Requirements by Performance Grade (1)								
		58-28S	58-28H	58-28V	58-28E	58-34S	58-34H	58-34V	58-34E	
ORIGINAL										
Flash Point, °C	T48	230 min.								
Rotational Viscosity, Pa·s	135° C T316	3.0 max.								
Dynamic Shear, kPa ($G^*/\sin \delta$, 10 rad./sec)	At Grade Temperature T315	1.00 min.								
Specific Gravity	15.6° C D70	Report								
RTFO RESIDUE										
Mass Change, %	T240	1.00 max.								
MSCR, $J_{nr3.2}$, max., kPa ⁻¹	At Grade Temperature	T350	4.5	2.0	1.0	0.5	4.5	2.0	1.0	0.5
MSCR, J_{nr} difference, %		M332	-							
MSCR, % Recovery 3.2 Kpa, min.		M332	-	30	55	75	-	30	55	75
PAV RESIDUE		R28	100° C, 20 hrs, 300 psi							
Dynamic Shear, kPa ($G^* \cdot \sin \delta$, 10 rad./sec.)	At Test Temperature	T315	19° C				16° C			
			5000 max.	6000 max.		5000 max.	6000 max.			
Creep Stiffness, MPa	At Test Temperature	T313	-18° C				-24° C			
			300 max.							
M-Value			0.300 min.							
Direct Tension Failure strain, min 1.0% Test temp@ 1.0mm/min, ° C	T314	-18° C				-24° C				
NOTES	<ol style="list-style-type: none"> All specifications listed denote asphalt binder spec base without toluene. For specifications for binders with toluene, refer to page 18 of the CSBG pdf linked above in the description section. Requirements in addition to M332 are shown in red. 									

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