

State: South Dakota	Materials: Re: Section 890.2 (D) - Asphalt Materials
Date Last Reviewed: 2/24/2025	Web Address: www.sddot.com
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Asphalt Binder		
Section 890.2 (D)	Highlights	SDDOT - a member of the Combined States Binder Group (CSBG) – have plans to implement the use of % Rec3.2 to replace current % recovery testing for all modified binders. This requirement will vary depending on the binder grade and the specified test temperature. They are also planning to fully implemented M332 for all grades. No date yet has been determined
	PMA Notes	The asphalt binder shall, if necessary, be blended at the terminal with permissible additives styrene-butadiene styrene (SBS) or styrene-butadiene rubber (SBR) necessary to meet the specifications. The type of modifier supplied shall be listed on the certificate of compliance.
	Exclusions and Limits	Air blown asphalts, acid modifiers, and other modifiers will not be allowed.

South Dakota		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 1)						
Property	Test Method:	Requirements by Performance Grade						
		58-28	58-34	64-34	64-22	64-28	70-34	70-28
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 Temperature T315	1.00 min.						
Specific Gravity	15.6° C 25° C (AMRL, CSBG) D70	Report						
RTFO RESIDUE		T240						
Mass Change, %	T240	1.00 max.						
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec.)	At Grade Temperature T315	2.20 min.						
Elastic Recovery, %	25° C T301	-	60 min.	-	60 min.			
PAV RESIDUE		R28 100° C, 20 hrs, 305 psi						
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temperature T315	19° C	16° C	19° C	25° C	22° C	22° C	25° C
		5000 max.						
Creep Stiffness, MPa	At Test Temperature T313	-18° C	-24° C	-24° C	-12° C	-18° C	-24° C	-18° C
		300 max.						
M-Value		0.300 min.						
NOTES		1. Requirements in addition to M320 are shown in red.						

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