State: Kansas	**Materials:** Re: Section 1202 – Performance Graded Asphalt Binder
Date Last Reviewed: 2-14-2025	**Web Address:** www.ksdot.org
Materials Engineer: Chris Leibrock	**Contact Info:** Sheri Cushnie, Chief Chemist; Sheri.Cushnie@ks.gov

Asphalt Binder		
Sections: 1200 1202.1 1202.2	Highlights	KDOT – is currently collecting data - future implementation of M332 is under consideration. They have implemented for projects bid after Aug. 1, 2019 a requirement for Delta Tc after 40 hours of PAV aging must be greater than -5C.
	PMA Notes	All PG above a PG 64-22 be polymer modified. Supplier determines polymer. Perform all tests after adding 0.5% high molecular weight amine anti-stripping agent (by weight) to the PGAB.
	Exclusions and Limits	None.

Kansas		**Table 1: Requirements for Performance-Graded Asphalt Binders**				
Property		**Test Method: AASTHO (T), ASTM (D) or other**	**Requirements by Performance Grade** (Notes 1, 2)			
			Non-modified		**Modified**	
			58-28	**64-22**	**52-34**	**58-34**	**64-28**
ORIGINAL							
Flash Point, ° C		T48	230 min.				
Rotational Viscosity, Pa·s	135° C	T316	3 max.				
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temperature	T315	1.00 min.				
Separation of Polymer, Softening Point Difference, ° C, 48hrs.	163° C	D7173	-		2 max.		
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, % minimum	25° C	D6084 Procedure A	-		50	60	60
PAV RESIDUE		R28	100° C, 20 hrs, 300 psi				
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec.)	At Test Temperature	T315	19° C	25° C	13° C	16° C	22° C
			5000 max.				
Creep Stiffness, MPa	At Test Temperature	T313	-18° C	-12° C	-24° C		-18° C
			300 max.				
M-Value			0.300 min.				
PAV RESIDUE		R28	40 hrs, 300 psi				
PAV Aging Temperature			100° C		90° C		100° C
ΔTc		ASTM D7643	≥ -5.0° C				

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

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Kansas		Table 1 Continued: Requirements for Performance-Graded Asphalt Binders							
Property		**Test Method: AASTHO (T), ASTM (D) or other**	**Requirements by Performance Grade** (Notes 1, 2)						
			64-34	**70-22**	**70-28**	**70-34**	**76-22**	**76-28**	**70-28 RCI**
ORIGINAL									
Flash Point, ° C		T48	230 min.						
Rotational Viscosity, Pa·s	135° C	T316	3 max.						
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temperature	T315	1.00 min.						
Separation of Polymer, Softening Point Difference, ° C, 48hrs.	163° C	D7173	2 max.						6 max.
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, % minimum	25° C	D6084 Procedure A	65	60	65	75	65	75	65
PAV RESIDUE		R28	100° C, 20 hrs, 300 psi						
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Grade Temperature	T315	19° C	28° C	25° C	22° C	31° C	28° C	25° C
			5000 max.						
Creep Stiffness, MPa	At Grade Temperature	T313	-24° C	-12° C	-18° C	-24° C	-12° C	-18° C	-18° C
			300 max.						
M-Value			0.300 min.						
PAV RESIDUE		R28	100 °C, 40 hrs, 300 psi						
ΔTc		ASTM D7643	≥ -5.0° C						
NOTES		1. Contractor may substitute performance graded asphalt which meets or exceeds the upper and lower grade designation for which is specified. For example: a PG 64-22 or PG 58-28 for a specified PG 58-22. 2. Requirements in addition to M320 are shown in red.							