

**KANSAS DEPARTMENT OF TRANSPORTATION
 SPECIAL PROVISION TO THE
 STANDARD SPECIFICATIONS, 2015 EDITION**

Delete SECTION 1202 and replace with the following:
SECTION 1202

PERFORMANCE GRADED ASPHALT BINDER

1202.1 DESCRIPTION

This specification covers performance graded asphalt binder (PGAB).

1202.2 REQUIREMENTS

a. Provide material* that complies with the applicable requirements of **SECTION 1201** and AASHTO M 320. Direct tension failure strain requirements are not applicable. All binders must have $\Delta T_c \geq -5.0^\circ\text{C}$ as defined by ASTM D 7643 after 40 hours of conditioning in the pressure aging vessel (PAV). Binders with a temperature spread of 92°C or greater and any polymer modified binder with a temperature spread of 86°C must meet the additional requirements shown in **TABLE 1202-1**.

*Perform all tests after adding 0.5% high molecular weight amine antistripping agent (by weight) to the PGAB. Contact the Chief Chemist, Bureau of Construction and Materials, for a list of acceptable high molecular weight amines.

TABLE 1202-1: ADDITIONAL REQUIREMENTS					
Temperature Spread ¹, °C	86	92	98	104	110
Separation, ASTM D7173, °C max. Run on Original Binder	2	2	2 ²	2	2
Elastic Recovery, ASTM D 6084, Procedure A, % min. Run on RTFO Residue	50	60	65	75	80
¹ Temperature Spread is determined by subtracting low temperature from high temperature; for example PG 64-28: $64 - (-28) = 92$ ² For PG 70-28 RCI, separation test requirement no greater than 6.					

b. Provide the grade of material designated in the Contract Documents. KDOT will not make changes in the grade of asphalt. The Contractor may substitute PGAB that complies with or exceeds the upper and lower grade designations for the grade specified. For example, if a maintenance overlay specifies a PG 58-22, a PG 64-22 or a PG 58-28 will also be accepted. Such substitutions require advance approval by the Engineer and a no-cost change order.

1202.3 TEST METHODS

Test according to the applicable provisions of ASTM D 7173, D 6084 and AASHTO T 48, T 240, T 313, T 315, T 316, and R 28. Use a PAV aging temperature of 90°C for binders designated PG52-xx and a temperature of 100°C for all other grade designations.

For PG 70-28 RCI prequalification, provide test data utilizing the binder in a mix that meets the criteria in Table 614-1 and passes the criteria in Table 614-5 in Section 614 (latest revision).

1202.4 PREQUALIFICATION

Prequalify material according to **SECTION 1201**.

1202.5 BASIS OF ACCEPTANCE

See applicable requirements under **SECTION 1201**.