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| **State:** Kentucky | **Materials:** Section 806 - Asphalt Materials |
| **Date Last Reviewed:** 01/27/2026 | **Web Address:** https://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx |
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**Asphalt Binder**

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| Section 806 | Highlights | Provide PG binders conforming to AASHTO M332 with any differences found in the PG Binder Requirements and Price Adjustment Schedule. |
| Section 806.03.01 & 806.03.03 | PMA Notes | Use only styrene-butadiene (SB) or styrene-butadiene-styrene (SBS) modifiers. PPA may be added to modified binders to aid in cross-linking (806.03.03) |
| | Exclusions and Limits | Do not use any form of recycled engine oil, including Recycled Engine Oil Bottoms (REOB), as a modifier in asphalt materials (Section 806.03.01) |

| ***Kentucky*** | | **Table 1: Requirements for Performance-Graded Asphalt Binders** (Note 2) | | | |
|---|---|---|---|---|---|
| **Property** | | **Test Method: AASTHO (T), ASTM (D) or other** | **Requirements by Performance Grade** | | |
| | | | **58-28 (58S-28)** | **64-22 (64S-22)** | **76-22 (64E-22)** |
| **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. | | |
| Solubility, % | | T44 | 99.0 min. | 99.0 min. | 97.0 min. |
| **RTFO RESIDUE** | | T240 | | | |
| Mass Change, % | | T240 | 1.00 max. | | |
| MSCR | Test Temp., ° C | T350 | 58 | 64 | 64 |
| | $J_{nr}$ 3.2, max. | | 4.5 | 4.5 | 0.5 |
| | $J_{nr\_diff.}$, max, % | | 75 | 75 | 75 |
| | % Recovery 3.2 kPa | | - | - | 60 |
| **PAV RESIDUE (1)** | | R28 | 100° C, 20 hrs, 300 psi | | |
| Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.) | At Test Temperature | T315 | 19° C | 25° C | 25° C |
| | | | 6000 max. (3.) | 6000 max. (3.) | 6000 max. |
| Creep Stiffness, MPa | At Test Temperature | T313 | -18° C | -12° C | -12° C |
| | | | 300 max. | | |
| M-Value | | | 0.300 min. | | |
| **NOTES** | | 1. The state of KY does not require PAV material to be degassed.<br>2. Requirements in addition to M332 are shown in red.<br>3. If the intermediate temperature stiffness, G* sinδ, is below 5,000 kPa, the phase angle minimum is not required. If the intermediate temperature stiffness, G*Sinδ, is between 5,000 kPa and 6,000 kPa, the intermediate phase angle minimum of 42° is required. | | | |