

<b>State:</b> Colorado	<b>Materials:</b> Re: Section 702 Asphalt Cements, CDOT's Standard Specifications Book 2022
<b>Date Last Reviewed:</b> 11/27/2024	<b>Web Address:</b> <a href="https://www.codot.gov/">https://www.codot.gov/</a> .
<b>Contact:</b> Vincent Battista (Asphalt Pavement Program Engineer)	<b>Contact Info:</b> vincent.battista@state.co.us

Asphalt Binder		
Section 702.01 (b)	Highlights	The supplier of the PG binder shall be certified in accordance with CP 11.
Section 702.01 (a)	PMA Notes	None stated.
	Exclusions and Limits	Asphalt shall not be Acid or Alkaline modified. Shall not contain any used oils that have not been re-refined. Modifiers that do not comply with environmental rules and regulations including 40 CFR Part 261.6(a)(3)(v) and 266/Subpart C shall not be added. Modifiers shall not be carcinogenic.

Colorado		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 1)						
Property		Test Method: AASTHO (T), ASTM (D) or other	Requirements by Performance Grade					
			58-28	58-34	64-22	64-28	70-28	76-28
<b>ORIGINAL</b>								
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.					
Ductility, cm		4° C T51	-			50 min.	-	
Toughness and Tenacity		Toughness, In-lbs. 25° C Tenacity, In-lbs.	-			110 min.	-	
			-			75 min.	-	
Acid or Base Modification (Note 2)		CP-L 2214	Pass					
<b>RTFO RESIDUE</b>		T240						
Mass Change, %		CP-L	1.00 max.					
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec.)		At Grade Temperature T315	2.20 min.					
Elastic Recovery, %		25° C T301	-			50 min.		
Ductility, cm		4° C T51	-			20 min.	-	
<b>PAV RESIDUE</b>		R28	100° C, 20 hrs, 300 psi					
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)		At Test Temperature T315	19° C	16° C	25° C	22° C	25° C	28° C
			6000 max.					
Creep Stiffness, MPa		At Test Temperature T313	-18° C	-24° C	-12° C	-18° C	-18° C	-18° C
			300 max.					
M-Value			0.300 min.					
<b>NOTES</b>		<ol style="list-style-type: none"> <li>Requirements in addition to M320 are shown in red.</li> <li>The Department will test for acid and alkaline modification during binder certification process. Thereafter, the Department will randomly test for acid and alkaline modification.</li> </ol>						

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