

<b>Province:</b> British Columbia	<b>Materials:</b> Asphalt Cements
<b>Date Last Reviewed:</b> July 15, 2025	<b>Web Address:</b> <a href="https://www2.gov.bc.ca/gov/content/governments/organizational-structure/ministries-organizations/ministries/transportation-and-infrastructure">https://www2.gov.bc.ca/gov/content/governments/organizational-structure/ministries-organizations/ministries/transportation-and-infrastructure</a>
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Asphalt Binder	
Highlights	Specification includes requirements for pen grade and performance grade
PMA Notes	MSCR R3.2 at 58°C required for: 58-40, 58-37, 58-34, 64-37, 64-34, 64-28, 70-28, 76-28
Exclusions and Limits	None listed.

British Columbia		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 1)											
Property	Test Method: AASTHO (T), ASTM (D)	Requirements by Performance Grade											
		52-34	58-28	58-34	58-37	58-40	64-22	64-28	64-34	64-37	70-28	76-28	
<b>ORIGINAL</b>													
Flash Point, °C	T48	230 min.											
Solubility, %	T44	99.0 min.											
Rotational Viscosity, Pa·s	135 °C T316	3.00 max.											
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temp. T315	1.00 min.											
<b>RTFO RESIDUE</b>		T240											
Mass Loss, %	T240	1.00 max.											
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec.)	At Grade Temp. T315	2.20 min.											
MSCR, % Recovery @ 3.2kPa, R <sub>3.2</sub>	58°C T350	-	-	25	40	40	-	25	40	55	40	55	
<b>PAV RESIDUE</b>		R28 100 °C											
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temp. T315	13 °C	19 °C	16 °C	14.5 °C	13 °C	25 °C	22 °C	19 °C	17.5 °C	25 °C	28 °C	
		5000 max.											
Creep Stiffness, MPa	At Test Temp. T313	-24 °C	-18 °C	-24 °C	-27 °C	-30 °C	-12 °C	-18 °C	-24 °C	-27 °C	-18 °C	-18 °C	
		300 max.											
M-Value		0.300 min.											
<b>NOTES</b>		1. Requirements in addition to M320 are shown in red.											

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



<i>British Columbia</i>			<b>Table 3: Penetration Grades of Asphalt Cement (PG Equivalent)</b>			
Property		Test Method: AASTHO (T), ASTM (D) or other	Requirements by Penetration Grade Asphalt Cement			
			200 – 300A (PG 52-34)	150 – 200A (PG 58-28)	120 – 150A (PG 58-28)	80 – 100A (PG 64-22)
<b>ORIGINAL</b>						
Flash Point, °C		D92	175 min.	220 min.	220 min.	230 min.
Penetration, tenths of mm	25 °C	D5	200 - 300	150 - 200	120 - 150	80 - 100
Ductility, cm	25 °C	D113	-	100 min.	-	100 min.
Ductility, cm	15 °C	D113	100 min.	-		
Viscosity, Poise	Group	D2171	Table 4			
	A					
	B					
	C					
Solubility, %		D2042	99.5 min.			
<b>RTFO RESIDUE</b>		<b>T240</b>				
Penetration of Residue, % of original	25 °C	D5	45 min.	50 min.	47 min.	55 min.
Mass Loss %		D1754	1.50 max.	1.30 max.	0.85 max.	0.80 max
<b>NOTES</b>		1. Viscosity at 60°C and penetration at 25°C fall within requirements outlined in Table 4.				

<i>British Columbia</i>	Test Method	<b>Table 4: Viscosity and Penetration Values Defining Group Boundaries</b>					
Penetration, 100g, 5s, tenths of mm, 25°C	ASTM D 5	80	100	120	150	200	300
Group	ASTM D 2171	Minimum Viscosity at 60°C, Poise					
A		150	115	91	70	50	31
B		110	85		-	-	-
C		75	55		-	-	-

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