

<b>State:</b> Idaho	<b>Materials:</b> Re: Section 702 - Asphalt
<b>Date Last Reviewed:</b> 11/8/2022	<b>Web Address:</b> www.itd.idaho.gov
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Asphalt Binder		
Section 702-01	Highlights	Provide asphalt binder that meets AASHTO M 320, except as follows: When polymer modification is specified or when the sum of the grade designation values exceed 90, perform the AASHTO T 301 test at 77°F (25°C) on residue from the rolling this film oven test (RTFOT). The binder must have at least 50 percent elastic recovery.
	PMA Notes	All PG's.
	Exclusions and Limits	Treat PG binder products with a heat-stable anti-stripping additive.  Determine an amount of anti-stripping additive per ton of asphalt to achieve passing test results and maintain that amount throughout production. If the asphalt mixture requires anti-strip additive, the asphalt vander sample will be tested in accordance with Idaho IT 99.  Use hydrated lime as a plant mix additive that meets 720.06.

Idaho		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 1)						
Property		Test Method: AASHTO (T), ASTM (D)	Requirements by Performance Grade					
			58-34	58-28	64-34	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.					
<b>RTFO RESIDUE</b>		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, %	25° C	T301	50 min.	-	50 min.			
<b>PAV RESIDUE</b>		R28	100° C, 20 hrs, 2.1 MPa					
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temperature	T315	16° C	19° C	19° C	22° C	25° C	28° C
			6000 max.					
Creep Stiffness, MPa	At Test Temperature	T313	-24° C	-18° C	-24° C	-18° 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.						

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



Idaho		Table 2: Requirements for Performance Graded Binders with High RAP Mixtures (Note 1)					
Property		Test Method: AASTHO (T), ASTM (D) or other	Requirements by Performance Grade				
			52-34	52-40	64-40	70-34	76-34
<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.				
<b>RTFO RESIDUE</b>		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, %	25° C	T301	-	50 min.			
<b>PAV RESIDUE</b>		R28	100° C, 20 hrs, 2.1 MPa				
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temperature	T315	13° C	10° C	16° C	22° C	25° C
			6000 max.				
Creep Stiffness, MPa	At Test Temperature	T313	-24° C	-30° C	-30° C	-24° C	-24° C
			300 max.				
M-Value			0.300 min.				
<b>NOTES</b>		1. Requirements in addition to M320 are shown in red.					

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