State: Alabama	**Materials:** Re: Section 804, Asphalt Materials; 804.02 Performance Graded Asphalt Binders, (PGAB)
Date Last Reviewed: 8/13/25	**Web Address:** https://www.dot.state.al.us/publications/Construction/Specifications.html
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Asphalt Binder		
Section 804.01	Highlights	Products furnished for use shall be from an approved producer who is participating in and meeting requirements of ALDOT -243, ACCEPTANCE PROGRAM FOR ASPHALT MATERIALS and listed on LIST 1-4, PRODUCERS OF ASPHALT PRODUCTS, of the Department's "Materials, Sources, and Devices with Special Acceptance Requirements" Manual. No immediate plans to implement MSCR. ALDOT is currently collecting MSCR data for information purposes and participating in the AASHTO resource proficiency sampling program.
	PMA Notes	PG 64-22 and 76-22 require polymer modification. A sample and infrared scan (Fourier Transform Infrared, FTIR) using the ALDOT 408 test method to determine the styrene and Butadiene peaks along with the percentage of polymer added at the appropriate polymer loading shall be submitted to the Materials and Tests Engineer for laboratory evaluation prior to use. All polymers shall conform to Section 811 for polymer additives. All Polymer Modified Asphalt Binder shall submit the information required in Article 811.01 annually or upon request by the Department. (Note 1)
	Exclusions and Limits	No air blown or oxidized asphalt shall be allowed. Other additives shall not be added to the asphalt material unless expressly authorized in writing by the Materials and Tests Engineer. The use of any unauthorized additive will be cause for rejection of the asphalt material.

Alabama		**Table 1: Requirements for Performance-Graded Asphalt Binders** (Note 6)				
Property		**Test Method: AASTHO (T), ASTM (D) or other**	**Requirements by Performance Grade**			
			58-22	**64-22** (5)	**67-22**	**76-22**
ORIGINAL						
Flash Point, °C		T48	230 min.			
Rotational Visc., Pa·s	135 °C	T316	3.0 max.			
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temperature	T315	1.00 min.			
Polymer Content, %	Qty. (2)	AL DOT 408 (3)	No	1.5 min. solids (2)	No	2.5 min. solids (2)
RTFO RESIDUE		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, %	10 °C	T301 (4)	-			50 min.
PAV RESIDUE		R28	100 °C, 20 hrs, 300 psi			
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temperature	T315	22 °C	25 °C	26.5 °C	26.5 °C
			6000 max.			
Creep Stiffness, MPa	At Test Temperature	T313	-12 °C			
			300 max.			
M-Value			0.300 min.			

Table 1 Continues on page 2

Notes	1. Article 811.01: must be listed (SBR, SB, SBS allowed); variations accepted w/ approval; written certification required before use; specifications apply for SBR's; see 811.02 Styrene Butadiene Rubber (SBR) for Hot Mix Asphalt or 811.03 SBR Latex for Asphalt Surface Treatments. 2. Submitted annually or as requested, determined by AL DOT 408, Infrared Trace. 3. Infrared Trace, determine Styrene and Butadiene peaks and polymer percentage at appropriate loading submitted to DOT prior to use. 4. The following exceptions shall be made to the requirements given in AASHTO t 301: The statement given in section 4.5 that reads "Attach the clips to the pins or hooks of the force adapter and the testing machine…" shall be disregarded. The molds shall be in accordance with the requirements given in ASTM D 6084 with dimensions noted in this method. All Elastic Recovery failures will be subject to FTIR scans for acceptability. 5. Made by modifying a PG 58-22 or by blending from a PG 76-22. 6. Requirements in addition to M320 are shown in red.