State: Louisiana	**Materials:** Re: Section 1002 - Asphalt Materials
Date Last Reviewed: 8/13/25	**Web Address:** www.dotd.state.la.us
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Asphalt Binder		
Section 1002	Highlights	Asphalt shall be prepared by the refining of petroleum. Asphalt shall be uniform in character, free from water, and shall not foam when heated to 350°F (177°C). Asphalt Material shall adhere to requirements for MSCR.
Section 1002.02	PMA Notes	Pre-blended polymer material is allowed, and in-line blending may be allowed with approval of the Materials Engineer. Pre-qualified waste tire rubber with a maximum size of 30 mesh is allowed.
	Exclusions and Limits	A max of up to 10 percent crumb rubber by weight of asphalt material is allowed.

Louisiana		**Table 1: Requirements for Performance-Graded Asphalt Cements** (Note 7)					
Property		**Test Method: AASTHO (T, R), ASTM (D)**	**Requirements by Performance Grade**				
			58-28	**67-22**	**70-22M**	**76-22M**	**76-22 RM (1, 3)**
ORIGINAL							
Flash Point, ° C		T48	232 min.				
Rotational Viscosity, Pa·s (2)	135 °C	T316	3.0 max.				
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temperature	T315	1.00 min.				
Separation of Polymer, Top-Bottom Difference by Softening Point, ° C (6)		D7173 T53	-		2.0 max.		-
Solubility, % (5)		T44	99.0 min.				-
Dynamic Shear, 10 rad/s, @ grade temp. Phase Angle, °		T 315	-			75°	
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.		-		
MSCR, Jnr (3.2 kPa)	67 °C	T350	-		1.0-2.0	0.5	
MSCR, % Recovery			-		15	(Note 4)	
Ductility, cm	25 °C	T51	-	90 min.	-		
PAV RESIDUE		R28	100 °C, 20 hrs, 300 psi				
Dynamic Shear, kPa (G* · sin δ, 10 rad./sec.)	At Test Temperature	T315	19 °C		26.5 °C		
			5000 max.		6000 max.		
Creep Stiffness, MPa	At Test Temperature	T313	-18 °C		-12 °C		
			300 max.				
M-Value			0.300 min.				
NOTES		1. Tank Mixers are required. Submit written documentation of tank cleaning annually to the Materials Laboratory. Submit written certificates of analysis from the supplier confirming rubber source and size distribution of rubber used. Furnish to the Materials Laboratory. 2. The rotational viscosity will be measured to determine product uniformity. The rotational viscosity measured by supplier shall be noted on the Certificate of Delivery.					

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

NOTES Continued on Page 2	
Table 1 Notes Continued	3. Use a maximum of 10% crumb rubber. 4. As defined in AASHTO M 332. 5. If polymer modified asphalt digested in the solvent will not pass the filter media, a sample of the base asphalt used in making the PMA should be tested for solubility. 6. Prepare samples per ASTM D7173. Determine softening point of top and bottom per AASHTO T53. Not required when crumb rubber is used. 7. Requirements in addition to M320 and M332 are shown in red.