

State: DELAWARE	Materials: Re: Section 810 Asphalt Cement
Date Last Reviewed: 3-05-10	Web Address: www.deldot.gov
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ASPHALT BINDER:

810	Description:	Asphalt Cement shall be prepared by refining of crude petroleum using methods conforming to industry standards. Asphalt Cement shall conform to requirements of AASHTO M 320.
	PMA's	PMA must state on truck ticket, that it contains polymer, and type of modifier.
	Exclusions:	None stated.

PROPERTY	Test Method AASHTO or Other	Requirements by Performance Grade, PG (Common Grades)				
		58-28	64-22	70-22	76-22	
ORIGINAL:						
Flash Point, °C	T 48	230 min.				
Rotational Viscosity, Pa Xs	135°C	T 316				
Dynamic Shear, kPa (G* /sin δ, 10 rad./sec.)	At grade temperature	T 315				
RTFOT RESIDUE:						
Mass Loss, %	T 240	1.0 max.				
Dynamic Shear, kPa (G* /sin δ, 10 rad./sec.)	At grade temperature	T 315				
PAV RESIDUE:						
Dynamic Shear, kPa (G* X sin δ, 10 rad./sec.)	At test temperature	T 315	100°C; 20 hrs; 300 psi			
			5,000 max.			
Creep Stiffness	At test temperature	T 313	19°C	25°C	28°C	31°C
			Stiffness 300 max. MPa & m Value 0.300 min.			
Direct Tension, (1mm/min.), % Strain	T 314	-18°C				
-12°C						
No Requirement						
PG PLUS REQUIREMENTS: YES						
ORIGINAL:						
Rotational Viscosity, Pa Xs	165°C	T 316	Report - 2 nd Rotational Viscosity required for Mix & Compaction Temperatures for non-modified binders		--	
NOTES: None.						

