

State: Maine	Materials: Re: Div 400 Pavements, 401.05 - Materials, Section 702.01 Asphalt Cements
Date Last Reviewed: 4/1/24	Web Address: www.maine.gov/mdot/contractors/publications/standardspec/
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Asphalt Binder		
Section 401.05 Section 702.01	Highlights	MEDOT implemented AASHTO M332 (MSCR) – replacing PG 70-28 with PG 64E-28 - in 2014. MSCR recovery is specified using the curve in AASHTO R92.
	PMA Notes	None stated.
	Exclusions and Limits	Performance-Graded Asphalt Binder shall not contain re-refined engine oil bottoms (REOB).

Maine		Table 1: Requirements for Performance-Graded Asphalt Binders			
Property	Test Method: AASHTO	Requirements by Performance Grade			
		58-28	64-28	64E-28	70E-28
ORIGINAL					
Flash Point, °C	T 48	230 min.			
Specific Gravity	15.6°C T 228	Report			
Rotational Viscosity, Pa·s	135°C T 316	3.0 max.			
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temp. T 315	1.00 min.			
RTFO RESIDUE					
Mass Change, %	T 240	1.00 max.			
MSCR Test temp., °C		58	64		70
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	T 315	2.20 min.			
MSCR Jnr _{3.2} , max., kPa ⁻¹				0.5	
MSCR, Jnr _{diff} , max., %	T 350			75 max. (Note 1)	
MSCR, % recovery @ 3.2kPa, min.				(Note 2)	
PAV RESIDUE					
DSR Test Temperature, °C		100° C, 20 hrs, 300 psi			
DSR Test Temperature, °C	T 315	19	22		25
Dynamic Shear, kPa (G*· sin δ, 10 rad./sec.)		6000 max. δ min. 42° (Note 3)		6000 max.	
BBR Test Temperature, °C		-18			
Creep Stiffness, MPa	T 313	300 max.			
M-Value		0.300 min.			
NOTES		<ol style="list-style-type: none"> Not applicable for binders with Jnr_{3.2} < 0.5 kPa⁻¹. >29.371*(Jnr_{3.2}^{-0.263}) - binder grade E must meet the requirements of AASHTO R 92. If G* sin δ is below 5000 the phase angle minimum limit is not required . 			

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