

<b>State:</b> New Hampshire	<b>Materials:</b> Re: Div 401 Plant Mix Pavements - General, Subsection 2.2 Bituminous Materials - General
<b>Date Last Reviewed:</b> 5/15/24	<b>Web Address:</b> <a href="https://www.dot.nh.gov/sites/g/files/ehbem811/files/inline-documents/2016-nhdot-spec-book.pdf">https://www.dot.nh.gov/sites/g/files/ehbem811/files/inline-documents/2016-nhdot-spec-book.pdf</a>
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Asphalt Binder		
Section 401 Subsection 2.2	Highlights	NHDOT implemented AASHTO M332 (MSCR) for modified grades in 2014 but went back to M320 in 2016 due to concerns with Jnr difference. MSCR recovery will be specified using the curve in AASHTO R92.
	PMA Notes	None stated.
	Exclusions and Limits	Asphalt binder shall not be air blown or contain any form of used, recycled or re-refined oil.

New Hampshire		Table 1: Requirements for Performance-Graded Asphalt Binders				
Property	Test Method: AASHTO	Requirements by Performance Grade				
		52-34	58-34	58-28	64-28	76-28
<b>ORIGINAL</b>						
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.				
<b>RTFO RESIDUE</b>						
Mass Change, %	T 240	1.00 max.				
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temp. T 315	2.20 min.				
<b>PAV RESIDUE</b>						
	R 28	100° C, 20 hrs, 300 psi	100° C, 20 hrs, 300 psi			
DSR Test Temperature, °C	T 315	13	16	19	22	28
Dynamic Shear, kPa (G*· sin δ, 10 rad./sec.)		6000 max. δ min. 42° (Note 1)				
BBR Test Temperature, °C	T 313	-24		-18		
Creep Stiffness, MPa		300 max.				
M-Value		0.300 min.				
<b>NOTES</b>		1. 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.