State: Alaska	**Materials:** Re: Section 702 Asphalt Materials
Date Last Reviewed: 11/27/2024	**Web Address:** www.dot.state.ak.us
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Asphalt Binder		
Section 702-2.01	Highlights	Meet AASHTO M320.
	PMA Notes	Yes.
	Exclusions and Limits	REOB/VTAE shall not be used as a modifier.

Alaska		**Table 1: Requirements for Performance-Graded Asphalt Binders** (Note 1)					
Property		**Test Method: AASTHO (T), ASTM (D) or other**	**Requirements by Performance Grade**				
			52-28	**52-40**	**58-28**	**58-34**	**64-40**
ORIGINAL							
Flash Point, °C		T48	230 min.				
Rotational Viscosity, Pa·s	135 °C	T316	3.00 max.				
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temperature	T315	1.00 min.				
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, $J_{nr\ 3.2}$ (kPa^{-1})	At Grade Temperature	T350	-	0.5 max.	0.5 max.	0.25 max	0.1 max.
MSCR, % Recovery @ 3.2kPa	At Grade Temperature	T350	-	75 min.	60 min.	85 min.	95 min.
PAV RESIDUE		R28	90 °C, 20 hrs, 300 psi		100 °C, 20 hrs, 300 psi		
Dynamic Shear, kPa (G*sin δ, 10 rad./sec.)	At Test Temperature	T315	16 °C	10 °C	19 °C	16 °C	4 °C
			6000 max. (Note 2)				
Creep Stiffness, MPa	At Test Temperature	T313	-18 °C	-30 °C	-18 °C	-24 °C	-30 °C
			300 max.				
M-Value			0.300 min.				
NOTES		1. Requirements in addition to M320 are shown in red. 2. If G*sin δ >5000 kPa, phase angle must be a minimum of 42°.					