

Table 1. Performance Graded Asphalt Binder Specification (Continued)

PERFORMANCE GRADE	PG 70						PG 76					PG 82				
	10	16	22	28	34	40	10	16	22	28	34	10	16	22	28	34
Average 7-day Maximum Pavement Design Temp, °C ^b	< 70						< 76					< 82				
Minimum Pavement Design Temperature, °C ^b	> -10	> -16	> -22	> -28	> -34	> -40	> -10	> -16	> -22	> -28	> -34	> -10	> -16	> -22	> -28	> -34
ORIGINAL BINDER																
Flash Point Temp, T48: Minimum °C							230									
Viscosity, ASTM D4402: ^b Maximum, 3 Pa·s, Test Temp, °C							135									
Dynamic Shear, TP5: ^c G'/sinδ, Minimum, 1.00 kPa Test Temp @ 10 rad/s, °C	70						76					82				
ROLLING THIN FILM OVEN RESIDUE (T240)																
Mass Loss, Maximum, percent							1.00									
Dynamic Shear, TP5: G'/sinδ, Minimum, 2.20 kPa Test Temp @ 10 rad/s, °C	70						76					82				
PRESSURE AGING VESSEL RESIDUE (PP1)																
PAV Aging Temperature, °C ^d	100(110)						100(110)					100(110)				
Dynamic Shear, TP5: G' sinδ, Maximum, 5000 kPa Test Temp @ 10 rad/s, °C	34	31	28	25	22	19	37	34	31	28	25	40	37	34	31	28
Physical Hardening ^e	Report															
Creep Stiffness, TP1: ^f S, Maximum, 300.0 MPa, m - value, Minimum, 0.300 Test Temp @ 60s, °C	0	-6	-12	-18	-24	-30	0	-6	-12	-18	-24	0	-6	-12	-18	-24
Direct Tension, TP3: ^g Failure Strain, Minimum, 1.0% Test Temp @ 1.0 mm/min, °C	0	-6	-12	-18	-24	-30	0	-6	-12	-18	-24	0	-6	-12	-18	-24

表1. 性能级配沥青粘结剂规范(续)

性能等级	PG 70						PG 76					PG 82				
	10	16	22	28	34	40	10	16	22	28	34	10	16	22	28	34
平均7天最高路面设计温度, °C ^b	< 70						< 76					< 82				
最低路面设计温度, °C ^b	> -10	> -16	> -22	> -28	> -34	> -40	> -10	> -16	> -22 to 28	> -28	> -34	> -10	> -16	> -22	28	> -34
最初的粘结剂																
闪点温度, T48:最低°C							230									
粘度, ASTM D4402:b最大, 3paos, 测试温度, °C							135									
动态剪切, TP5: G/sino, 最低, 1.00 kPa测试温度@ 10 rad/s, °C	70						76					82				
滚膜炉渣(t240)																
质量损失, 最大值, 百分比							1.00									
动态剪切, TP5: G/sinδ, 最小, 2.20 kPa测试Temp@10 rad/s, °C	70						76					82				
压力老化容器残留物(pp1)																
PAV老化温度, °C ^d	100 (110).						100 (110).					100 (110).				
动态剪切, TP5: G sino, 最大, 5000 kPa测试温度@ 10 rad/s, °C	34	31	28	25	22	19	37	34	31	28	25	40	37	34	31	28
物理硬化	报告															
蠕变刚度, TP1: S, 最大值 , 300.0 MPa, m值, 最小值 , 0.300测试Temp@60s, °C	0	-6	-12	-18	-24	-30	0	-6	-12	-18	-24	0	-6	-12	-18	-24
直接张力, TP3:失效应变, 最小, 1.0%测试温度@ 1.0 mm/min, °C	0	-6	-12	-18	-24	-30	0	-6	-12	-18	-24	0	-6	-12	-18	-24