



Jey Oil Refining Company

**Performance Grade (PG)**

PERFORMANCE GRADE	PG 52-				PG 58-				PG 64-				PG 70-				PG 76-																							
	10	16	22					16	22					10	16	22					10	16	22					10	16	22										
Average 7-day maximum pavement design temperature, °C	<52								<58								<64								<70								<76							
Minimum Pavement design temperature, °C	>-10	>-16	>-22					>-16	>-22					>-10	>-16	>-22					>-10	>-16	>-22					>-10	>-16	>-22										
ORIGINAL BINDER																																								
Flash point temp, T 48, minimum, °C	230																																							
Viscosity, T 316: maximum 3 Pas, test temp, °C	135																																							
Dynamic shear, T 315: G'/sin δ, minimum 1.00 kPa test temp @ 10 rad/s, °C	52								58								64								70								76							
ROLLING THIN-FILM OVEN RESIDUE (T 240)																																								
Mass Change, maximum, percent	1.00																																							
Dynamic shear, T 315: G'/sin δ, minimum 2.20 kPa test temp @ 10 rad/s, °C	52								58								64								70								76							
PRESSURE AGING VESSEL (R 28)																																								
PAV aging temperature, °C	90								100								100								100 (110)								100 (110)							
Dynamic shear, T 315: G'/sin δ, maximum 5000 kPa test temp @ 10 rad/s, °C	25	22	19					25	22					31	28	25					34	31					37													
Creep stiffness, T 313: S, maximum 300 Mpa m-value, minimum 0.300 test temp @ 60s, °C	0	-6	-12					-6	-12					0	-6	-12					0	-6					0													
Direct tension, T 314: Failure strain, minimum 0.300 test temp @ 60s, °C	0	-6	-12					-6	-12					0	-6	-12					0	-6					0													
Critical low cracking temp, PP 42: Critical cracking temp determined by PP 42, test temp, °C	0	-6	-12					-6	-12					0	-6	-12					0	-6					0													