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Bridging Businesses Together

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# BITUMEN PERFORMANCE GRADE PG 52, 58, 64, 70 & 76

## PERFORMANCE GRADE

Performance Grade	PG 52			PG 58		PG 64			PG 70		PG 76
	10	16	22	16	22	10	16	22	10	16	10
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	> -10

## ORIGINAL BINDER

Flash Point Temp, T <sub>48</sub> , minimum °C	230										
Viscosity, T <sub>316</sub> : Maximum 3 pas, test temp, °C	135										
Dynamic shear, T <sub>315</sub> : G*/sin & minimum 1.00kpa test temp @ 10 rad/s, °C	52			58		64			70		76

## PRESSURE AGING VESSEL (R28)

Pav aging temperature, °C	90			100		100			100 ( '110)		100 ('110)
Dynamic shear, T <sub>315</sub> : G*/sin & maximum 5000 kpa test temp @ 10 rad/s, °C	25	22	19	25	22	31	28	25	34	31	37
Creep stiffness, T <sub>313</sub> : S, maximum 300 Mpa M-value, minimum 0.300 Test temp @ 10 rad/s, °C	0	-6	-12	-6	-12	0	-6	-12	0	-6	0
Direct tension, T <sub>314</sub> : 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 <sub>42</sub> : Critical cracking temp determined by pp <sub>42</sub> , Test temp, °C	0	-6	-12	-6	-12	0	-6	-12	0	-6	0