



RK NORTHWEST REFINING & ENERGY COMPANY BITUMEN EVALUATION DEPARTMENT

Bitumen PG 70-xx											Test Method	Unit	Test	
PG - 76					PG - 70						D6373	-	Degree of performance	
-34	-28	-22	-16	-10	-40	-34	-28	-22	-16	-10				
76>					70>									-
-34<	-28<	-22<	-16<	-10<	-40<	-34<	-28<	-22<	-16<	-10<	-	(°C)	Lowest Pavement Temperature	
Bitumen before aging														
Min 230											INSO 198	(°C)	Flash point	
max 3											ASTM D4402	@ 135°C, Pa.S	Rotational viscosity (RV)	
76					70						ASTM D7175	Test temperature. (°C)	Dynamic Shear Rheometer (DSR)	
-					min 1									G* /sinδ . KPa
Rolling Thin-Film Oven Test(RTFOT)														
max 1											INSO 11898	%	Weight change	
76					70						ASTM D7175	Test temperature. (°C)	Dynamic Shear Rheometer (DSR)	
-					min 2.2									G* /sinδ . KPa
Pressurized Aging Vessel (PAV)														
(110)100											ASTM D6521	(°C)	Aging temperature	
25	28	31	34	37	19	22	25	28	31	34	ASTM D7175	Test temperature. (°C)	Dynamic Shear Rheometer (DSR)	
-					max 5000									G* . sinδ . KPa
-24	-18	-12	-6	0	-30	-24	-18	-12	-6	0	ASTM D6648	Test temperature. (°C)	Bending Beam Rheometer (BBR)	
-					max 300									S @ 60 s , MPa
-					min (0.3)									m

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