

IN THE NAME OF GOD



SHIRAZ OIL REFINING CO.

## Performance Grade Bitumen Specifications

Test	Method	Unit	Result & Range	Specifications				
				PG 58-22	PG 64-10	PG 64-16	PG 64-22	PG 70-10
Maximum pavement Design temperature	ASTM D6373	°C	Result					
			Range	58	64	64	70	64
Minimum pavement Design temperature	ASTM D6373	°C	Result					
			Range	-22	-10	-16	-22	-10
Flash point (Cleveland open cup)	ASTM D92	°C	Result					
			Range	min. 230	min. 230	min. 230	min. 230	min. 230
Rotational viscosity at 135°C	ASTM D4402	Pa.s	Result					
			Range	max. 3	max. 3	max. 3	max. 3	max. 3
Dynamic shear ≥1.00 kPa	ASTM D7175	°C	Result					
			Range	58	64	64	64	70
Mass loss	ASTM D6	Wt. %	Result					
			Range	max. 1	max. 1	max. 1	max. 1	max. 1
Creep stiffness	ASTM D6648	°C	Result					
			Range	-12	0	-6	-12	0
Direct tension	ASTM D6723	°C	Result					
			Range	-12	0	-6	-12	0
Absolute viscosity at 60°C	ASTM D4402	Poise	Result					
			Range	1120			2030	
Penetration at 60°C	ASTM D5	1/10 mm	Result					
			Range	110	60 - 70	60 -70	60 -70	70
Specific gravity	ASTM D70	kg / m <sup>3</sup>	Result					
			Range	min. 1.02	min. 1.02	min. 1.02	min. 1.02	min. 1.02
<b>Application temperature:</b>								
Storing temperature	-	°C	Range	50 -163	50 -163	50 -163	50 -163	50 -163
Usage temperature	-	°C	Range	max. 177	max. 177	max. 177	max. 177	max. 177

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