



Performance Grade (P.G) 58-22 Analysis

(ASTM D6373)

Original					
Test Method	Specifications	Unit	Result		Acceptable Range
			Pass	Fail	
Dynamic Shear Rheometer (D.S.R) ASTM D7175	Temperature	°c	58		
	Phase angle (δ)	°	87.1		
	G*	Kpa	1.53		
	$ G^* /\sin\delta$	Kpa	1.53		Min 1.0
Rotational Viscometer (R.V) ASTM D4402	at 135°c	Pa.s	0.26		Max 3
Penetration ASTM D5	at 25°c	0.1mm	86		
Rolling Thin Film Oven (R.T.F.O) ASTM D2872					
Dynamic Shear Rheometer (D.S.R) ASTM D7175	Temperature	°c	58		
	phase angle (δ)	°	86.1		
	G*	Kpa	2.8		
	$ G^* /\sin\delta$	Kpa	2.8		Min 2.2
Pressure Aging Vessel (P.A.V) ASTM D6521					
Dynamic Shear Rheometer (D.S.R) ASTM D7175	Temperature	°c	25		
	phase angle (δ)	°	50.5		
	G*	Kpa	3850		
	$ G^* \times \sin\delta$	Kpa	2940		Max 5000
Bending Beam Rheometer (B.B.R) ASTM D6648	(Temperature)	°c	-22		
	m-Value		0.31		Min 0.3
	Stiffness	M.pa	137		Max 300