



**Performance Grade (P.G) 70-16 Analysis**

Original					
Test Method	Specifications	Unit	Result		Acceptable Range
			Pass	Fail	
<b>Dynamic Shear Rheometer (D.S.R) ASTM D7175</b>	Temperature	°c	70		
	Phase angle (δ)	°	85.3		
	G*	Kpa	1.08		
	$ G^* /\sin\delta$	Kpa	1.08		Min 1.0
<b>Rotational Viscometer (R.V) ASTM D4402</b>	135°c at	Pa.s	0.5		Max 3
<b>Penetration ASTM D5</b>	at 25°c	0.1mm	42		
<b>Rolling Thin Film Oven (R.T.F.O) ASTM D2872</b>					
<b>Dynamic Shear Rheometer (D.S.R) ASTM D7175</b>	Temperature	°c	70		
	phase angle (δ)	°	82.4		
	G*	Kpa	2.31		
	$ G^* /\sin\delta$	Kpa	2.3		Min 2.2
<b>Pressure Aging Vessel (P.A.V) ASTM D6521</b>					
<b>Dynamic Shear Rheometer (D.S.R) ASTM D7175</b>	Temperature	°c	31		
	phase angle (δ)	°	54.4		
	G*	Kpa	4700		
	$ G^*  \times \sin\delta$	Kpa	4000		Max 5000
<b>Bending Beam Rheometer (B.B.R) ASTM D6648</b>	)Temperature(	°c	-16		
	m-Value		0.31		Min 0.3
	Stiffness	M.pa	72		Max 300

