



BITUMEN VISCOSITY ANALYSIS VG10

Test Title	Result	Standard range	TEST Method
Penetration At 25 °C, 0.1MM	87	Min: 70 – Max: —	ASTM D5
Softening Point, °C	48.1	—	ASTM D36
Kinematic Viscosity @135 °C, CST	270	Min: 150 – Max: —	ASTM D2170
Absolute Viscosity @60 °C Poises	1060	Min: 800 – Max: 1200	ASTM D2171
Flash Point, °C	292	Min: 220 – Max: —	ASTM D92
Solubility In TCE, WT%	99.8	Min: 99 – Max: —	ASTM D2042

AFTER TFOT (ASTM D1754)

Viscosity Ratio @60 °C	2.18	—	ASTM D2171
Ductility @25 °C CM	90	Min: 50 – Max: —	ASTM D113
SPOT TEST,(NAPHTHA)	NEG	Negative	AASHTOT102



BITUMEN VISCOSITY ANALYSIS VG20

Test Title	Result	Standard range	TEST Method
SP gr @25/25 c c	1.01	Min: 1.01 – Max: 1.06	ASTM D70
Absolute Viscosity @60 °C Poises	2091	Min: 1600 – Max:2400	ASTM D2171
Penetration At 25 °C, 0.1MM	65.3	Min: 60 – Max70	ASTM D5
Softening Point, °C	49.6	Min: 46 – Max52	ASTM D36
Solubility In TCE, WT%	99.8	Min: 99.5 – Max: —	ASTM D4
Ductility @25 °C CM	>100	Min: 100 – Max: —	ASTM D113
Flash Point, °C	322	Min: 232 – Max: —	ASTM D92
Loss On heating, WT%	0.01	Min: — – Max: 0.2	ASTM D6
Drop Penetration after loss on heat	8.3	Min: — – Max: 20	ASTM D6 & D5
SPOT TEST	NEG	Negative	—



BITUMEN VISCOSITY ANALYSIS VG30

Test Title	Result	Standard range	TEST Method
Penetration At 25 °C, 0.1MM	52.6	Min: 50 – Max: 70	ASTM D5
Softening Point °C	52.4	Min: 52 – Max: 56	ASTM D36
Kinematic Viscosity @135 °C, CST	380	Min: 350 – Max: 400	ASTM D2171
Absolute Viscosity @60 °C Poises	3300	Min: 2400 – Max: 3600	ASTM D2171
Flash Point, °C	303	Min: 230 – Max: 350	ASTM D92
Solubility In TCE, WT%	99.7	Min: 99 – Max: —	ASTM D2042

AFTER TFOT (ASTM D1754)

Viscosity Ratio @60 °C	2.19	Min: 2 – Max: 4	ASTM D2171
Ductility @25 °C CM	81	Min: 40 – Max: 100	ASTM D113



BITUMEN VISCOSITY ANALYSIS VG40

Test Title	Result	Standard range	TEST Method
Penetration At 25 °C, 0.1MM	43	Min:40 – Max: —	ASTM D5
Softening Point, °C	54.3	—	ASTM D36
Kinematic Viscosity @135 °C, CST	470	Min: 400 – Max: —	ASTM D2170
Absolute Viscosity @60 °C Poises	4220	Min: 3200 – Max: 4800	ASTM D2171
Flash Point, °C	304	Min: 230 – Max: —	ASTM D2042
Solubility In TCE, WT%	99.8	Min: 99 – Max: —	ASTM D2042

AFTER TFOT (ASTM D1754)

Viscosity Ratio @60 °C	2.18	—	ASTM D2171
Ductility @25 °C CM	82	Min: 25 – Max: —	ASTM D113
SPOT TEST,(NAPHTHA)	NEG	Negative	AASHTOT102