

Bitumen Viscosity Analysis VG10

Test Title	Result	Standard range	TEST Method
SP gr @25/25 cc	1.01	Min: 1.01 – Max: 3pa.s	ISIRI 2956 – ASTM D70
Absolute Viscosity @60 cc poises.min	1092	Min: 800 – Max: —	ASTM D2171
Penetration @25 cc-100gr-5s	91.6	Min: 80 – Max: —	ISIRI 2950 – ASTM D5
Softening Point	46	Min: 45 – Max: —	ISIRI 3868 – ASTM D36
Solubility in Trichloroethylene (bitumen content)	99.98	Min: 99.5 – Max: —	ISIRI 2953 – ASTM D4
Ductility @25 cc cm	>100	Min: 100 – Max: 1.00%	ISIRI 3866 – ASTM D113
Flash Point cc	322	Min: 232 – Max: —	ISIRI 1175 – ASTM D92
Loss On heating w t%	0.03	Min: — – Max: 5000 k Pa	ISIRI 2957 – ASTM D6
Drop Penetration after loss on heat	8.4	Min: — – Max: 300 M Pa	ISIRI 2950 – ASTM D6 & D5
Spot Test	Negative	Negative	ISIRI 2949

Bitumen Viscosity Analysis VG20

Test Title	Result	Standard range	TEST Method
SP gr @25/25 cc	1.01	Min: 1.01 – Max: 1.06	ISIRI 2956 – ASTM D70
Absolute Viscosity @60 cc poises.min	2091	Min: 1600 – Max: 2400	ASTM D2171
Penetration @25 cc-100gr-5s	65.3	Min: 60 – Max: 70	ISIRI 2950 – ASTM D5
Softening Point	49.6	Min: 46 – Max: 52	ISIRI 3868 – ASTM D36
Solubility in Trichloroethylene (bitumen content)	99.98	Min: 99.5 – Max: —	ISIRI 2953 – ASTM D4
Ductility @25 cc cm	>100	Min: 100 – Max: —	ISIRI 3866 – ASTM D113
Flash Point cc	322	Min: 232 – Max: —	ISIRI 1175 – ASTM D92
Loss On heating w t%	0.01	Min: — – Max: 0.2	ISIRI 2957 – ASTM D6
Drop Penetration after loss on heat	8.3	Min: — – Max: 20	ISIRI 2950 – ASTM D6 & D5
Spot Test	Negative	Negative	ISIRI 2949

Bitumen Viscosity Analysis VG30

Test Title	Result	Standard range	TEST Method
SP gr @25/25 cc	1.02	Min: 1.01 – Max: 1.06	ISIRI 2956 – ASTM D70
Absolute Viscosity @60 cc poises.min	3200	Min: 2400 – Max: 3600	ASTM D2171
Penetration @25 cc-100gr-5s	52.6	Min: 50 – Max: 70	ISIRI 2950 – ASTM D5
Softening Point	52.4	Min: 52 – Max: 56	ISIRI 3868 – ASTM D36
Solubility in Trichloroethylene (bitumen content)	99.98	Min: 99.5 – Max: —	ISIRI 2953 – ASTM D4
Ductility @25 cc cm	>100	Min: 100 – Max: —	ISIRI 3866 – ASTM D113
Flash Point cc	132	Min: 232 – Max: —	ISIRI 1175 – ASTM D92
Loss On heating w t%	0.05	Min: — – Max: 0.2	ISIRI 2957 – ASTM D6
Drop Penetration after loss on heat	8.2	Min: — – Max: 20	ISIRI 2950 – ASTM D6 & D5
Spot Test	Negative	Negative	ISIRI 2949

Bitumen Viscosity Analysis VG40

Test Title	Result	Standard range	TEST Method
SP gr @25/25 cc	1.03	Min: 1.01 – Max: 1.06	ISIRI 2956 – ASTM D70
Absolute Viscosity @60 cc poises.min	4400	Min: 3200 – Max: 4800	ASTM D2171
Penetration @25 cc-100gr-5s	45.7	Min: 40 – Max: 50	ISIRI 2950 – ASTM D5
Softening Point	53.6	Min: 52 – Max: 56	ISIRI 3868 – ASTM D36
Solubility in Trichloroethylene (bitumen content)	99.98	Min: 99.5 – Max: —	ISIRI 2953 – ASTM D4
Ductility @25 cc cm	>100	Min: 100 – Max: —	ISIRI 3866 – ASTM D113
Flash Point cc	132	Min: 232 – Max: —	ISIRI 1175 – ASTM D92
Loss On heating w t%	0.05	Min: — – Max: 0.2	ISIRI 2957 – ASTM D6
Drop Penetration after loss on heat	8.2	Min: — – Max: 20	ISIRI 2950 – ASTM D6 & D5
Spot Test	Negative	Negative	ISIRI 2949