



UNIVERSAL LINK AGENCY LTD.

Penetration Grades

Penetration-grade bitumen is mainly used in road surfacing. Bitumen with lower penetration grade is used in the regions with warm climate while higher penetration grade is used in colder weather. Pasargad Oil Company is capable of producing different grades of road surfacing bitumen in compliance with national and international standards in its six plants located at Tehran, Tabriz, Arak, Shiraz, Bandar Abbas and Abadan refineries.

Test	Methodology	30-40	40-50	60-70	85-100	100-120
Density	ASTM D-7	1/01-1/06	1/01-1/06	1/01-1/06	1-1/0 5	1/01-1/04
Penetration Rate at 25°C	ASTM D-5	30-40	40-50	60-70	85-100	100-120
Softening Point °C	ASTM D-36	55 -63	52-60	49-56	45 -52	42-49
Ductility at 25 °C (cm)	ASTM D-113	100 Min	100 Min	100 Min	100 Min	100 Min
Flash Point °C	ASTM D-92	250 Min	250 Min	250 Min	250 Min	250 Min
Solubility in Disulfide %wt	ASTM D-4	99/5	99/5	99/5	99/5	99/5
Stain Test	AASHTO T 102	Negative	Negative	Negative	Negative	Negative
Weight Loss by Heating %wt	ASTM D-6	0/2 Max	0/2 Max	0/2 Max	0/2 Max	0/2 Max
Penetration Loss by Heating %	ASTM D-6-D-5	20 Max	20 Max	20 Max	20 Max	20 Max