

TECHNICAL DATA SHEET

Performance Grade Bitumen

Note: The primary aim of the modification of bitumen for use in structural layers is to increase the resistance of these layers to permanent deformation at high road temperatures without compromising the properties of these layers over the rest of the prevailing temperature range. The use of polymer modified bitumen to obtain improved performance is rising as a result of increases in tire pressures, axle loads, and higher traffic volumes.

Improved performance can be achieved in two ways, both of which are aimed at reducing the permanent strain:

An increase in the elastic component with an associated reduction in the viscous component; and Stiffening of the bitumen to reduce the total viscoelastic response of the layer.

Specification	Grades			
	58/22	64/22	76/22	Test Method
Specific Gravity @25/25 °C	1.01-1.06	1.01-1.06	1.01-1.06	D-70
Penetration @25 °C	20-25	20-25	20-25	D-5
Softening Point °C	50-60	60-70	70-80	D-36
Ductility @25 °C	1.5 Min	1.5 Min	1.5 Min	D-113
Loss On Heating (Wt)%	0.2 Max	0.2 Max	0.2 Max	D-6
Flash Point °C	250 Min	250 Min	250 Min	D-92
Solubility In CS ₂ (Wt)% O.M. Insoluble in CS ₂ (WT) %	99 Min 1 Max	99 Min 1 Max	99 Min 1 Max	D-4