



Bitumen Grade: PMB-PG 82E-16

Description and Applications:

Penetration Grade Bitumen is mainly used in road surfacing and some industrial applications. We supply penetration Grade Bitumen which is petroleum based and manufactured from Vacuum Bottom (VB) feedstock. Penetration Grade Bitumen is specified by the penetration and softening point test. Bitumen with lower penetration grade is used in the regions with warm climate while higher penetration grade is used in colder weather.

Characteristics and Specifications:

Based on ASTM D6373 Bitumen.

Health and Safety:

Detailed health and safety information for this product is provided in the Material Safety Data Sheet (MSDS), available upon request.

No	Property	Test Standard	Acceptable Range
Original Binder			
1	Rotational Viscosity, 135 °C	AASHTO T316	≤3 Pa.s
2	Flash Point , °C	AASHTO T48	≥230 °C
3	DSR , 82 °C (shear strain 12%, 10.0 rad/s)	AASHTO T315	$G^*/\sin\delta \geq 1.0$ KPa
4	Elastic Recovery, % , 25 °C	ASTM D6084	≥75%
5	Polymer Separation by Softening point ≤	ASTM D7173	≤4.0 °C
6	Softening Point , °C	ASTM D36	≥65.0 °C
7	Mass Change, 163 °C	AASHTO T240	± 1.0 % Max
8	DSR, 82 °C (shear strain 12%, 10.0 rad/s)	AASHTO T315	$G^*/\sin\delta \geq 2.2$ Kpa
9	MSCR, 82 °C	AASHTO T350	Jnr3.2≤ 0.5KPa-1, Jnr Diff≤75% "E" Extremely Heavy Traffic
After PAV Test			
10	Pressure aging vessel (PAV) aging temperature. °C	AASHTO R 28	110
11	DSR, 37 °C (shear strain 1%, 10.0 rad/s)	AASHTO T315	$G^*.\sin\delta \leq 5000$ KPa
12	BBR, -6 °C	AASHTO T313	S≤300MPa m≥0.3

