

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 76-10

IQTB-800-QL-TDS-0027

DESCRIPTION

Paving Grade Bitumen complies with the specifications in the standard AASHTO M-320 or ASTM D6373 for PG 76-10. Performance Grade (PG) Bitumen PG 76-10 is an asphalt binder classified under the Superpave Performance Grading (PG) system. This classification guarantees that the Bitumen performs effectively under specific temperature conditions, making it well-suited for a variety of demanding pavement applications.

PG 76-10 ensures consistent quality and high-performance reliability across all production batches. Its proven strength and flexibility make it an ideal choice for high-speed, high-traffic corridors, urban arterials, and critical infrastructure projects that demand durable asphalt solutions.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 76	°C	--
Minimum pavement design temperature	> -10	°C	
Original Binder			
Flash point °C	230 Min	°C	AASHTO T48 / ASTM D92
Viscosity @135°C	3.0 Max	Pa.s	AASHTO T316 / ASTM D4402
Dynamic Shear, G*/sin! at 76°C at 10 rad/s	1.0 Min	kPa	AASHTO T315 / ASTM D7175
Residual Binder from Rolling Thin-Film Test (AASHTO T240 / ASTM D2872)			
Mass change	1.0 Max	%Wt	AASHTO T240 / ASTM D2872
Dynamic Shear, G*/sin! at 76°C at 10 rad/s	2.2 Min	kPa	AASHTO T315 / ASTM D7175
Pressure Aging Vessel Residue (AASHTO R28 / ASTM D6521)			
PAV Temperature	100 (110)	°C	AASHTO R28 / ASTM D6521
Dynamic Shear, G*.sin! at 37°C at 10 rad/s	5000 Max	kPa	AASHTO T315 / ASTM 7175
Creep Stiffness at 0°C			
S value	300 Max	MPa	AASHTO T313 / ASTM D6648
M value (slope)	0.300 Min		AASHTO T313 / ASTM D6648
Direct Tension at, 0°C			
Failure strain, Test Temp @ 1.0 mm/min	1.0 Min	%	AASHTO T314 / ASTM D6723

GUARANTY AND SAFETY

We as Iraq Altaqa Company guarantees the quality of Bitumen PG 76-10. To ensure this, an independent international inspection agency is arranged to verify both the quality and quantity of the Bitumen during vessel loading. Additionally, production is closely monitored by the Quality Control (QC) team through batch testing prior to shipment.

APPLICATIONS

PG 76-10 is ideal for a variety of demanding applications. On highways and expressways, it is designed to handle sustained high traffic volumes and heavy loads, particularly in hot climates. For airport runways and taxiways, it offers excellent resistance to deformation caused by aircraft loading and thermal expansion. Additionally, bus lanes and freight routes benefit from its durability, as it is specifically engineered to withstand slow-moving, high-load conditions and intense thermal stress.

PACKAGING

Our bitumen is available in a range of packaging options, including:

 Jumbo bags 1 MT	 Flexitanks 20 MT	 Steel drums 150kg 180kg 220kg
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All packaging is weatherproof and engineered for safe, efficient handling and transportation in diverse operating environments.

RECOMMENDED WORKING TEMPERATURES

-  Storage temperature (°C): < 180
-  Mixing temperature (°C): 140-165
-  Maximum heating temperature (°C): 185

Complies with
ASTM D6373



Complies with
AASHTO M-320

