

BP Performance Grade PG Asphalt Binders Type A



BP Performance Grade - Type A Asphalt Binders are designed to meet a wide range of climate and paving requirements.

Technical
Datasheet



Quality Assurance

BP Type A Performance Graded Asphalt Binders are supplied by BP to a quality system conforming to AASHTO R 26-01. These binders also meet the DOT quality assurance certifications in Indiana, Michigan and Wisconsin.

Specifications

BP Type A PG Binders are produced to meet the AASHTO M 320 specifications.

Availability

BP Typed A PG Binders are available by tanker truck.

Recommended Storage, Handling and Usage

BP recommends that all storage tanks be clearly identified and a record maintained for each tank showing grade, volume, date received and source of the asphalt. Daily, one quart samples of each

grade used should be retained for six months.

The storage temperature should not exceed 350°F (177°C). Modified asphalt should not be stored more than two days without agitation. If asphalt is stored longer than one week above 300°F (149°C), it is advisable to monitor aging of the asphalt by checking the DSR. If significant changes in these properties occur, it is advisable to have the asphalt tested for compliance with PG specifications.

Consult with the BP Asphalt Technical Department prior to use of any other additives (such as anti-strip) with these binders.

Typical laboratory mixing and compaction temperatures are available on a separate BP datasheet and are based on recommended procedures in an

Asphalt Institute Technical Bulletin. Additional information for establishing mixing and compaction temperatures at the project level are also available from the Asphalt Institute www.asphaltinstitute.org.

Health, Safety and Environment

BP Asphalt Binders should be used in accordance with the recommendations given in the BP Material Safety Data Sheet for Asphalt (MSDS# 0000002913).

Additional information on the "Safe Handling of Hot Asphalt" can be found in Asphalt Institute publication VA-26W.

"Best Management Practices to Minimize Emissions during HMA Construction" can be found in the Asphalt Pavement Environmental Council publication EC 101.

**For specific inquiries contact:
Technical Support, (630) 420-5345**

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Specifications

PG Grade	AASHTO Method	Specified Limit(s) or Test Temperature, °C			
		PG 52-34	PG 64-28	PG 67-22	PG 70-22
Original Binder					
Flash Point, COC, °C	T 48			≥ 230	
Rotational Viscosity @ 135°C, Pa-s	T 316			≤ 3.00	
Dynamic Shear @ Grade Temperature, °C G*/sin Δ @ 10 rad/sec, kPa	T 315	52	64	67	70
				≥ 1.00	
RTFOT Residue					
	T 240				
Mass Loss, %	T 240			≤ 1.00	
Dynamic Shear @ Grade Temperature, °C G*/sin Δ @ 10 rad/sec, kPa	T 315	52	64	67	70
				≥ 2.20	
PAV Residue (Aging Temperature, °C)					
	R 28	90		100	
Dynamic Shear @ Grade Temperature, °C G*/sin Δ @ 10 rad/sec, kPa	T 315	13	22	25	28
				≤ 5000	
Creep Stiffness S, Mpa m-value	T 313 T 313	-24	-18	-12	-12
				≤ 300	
				≥ 0.30	

Typical Data

PG Grade		PG 52-34	PG 64-28	PG 70-22
Absolute Viscosity at 140°F (60°C), Poises	T 202	-	2550	5636
Penetration at 77°F (25°C), dmm	T 49	-	80	50
Specific Gravity at 60°F (15.6°C)	T 228	1.030	1.040	1.045
Pounds per Gallon at 60°F (15.6°C)		8.578	8.683	8.683
Laboratory Mixing Temperature, °F	AI Tech Bulletin	280-295	308-318	321-331
Laboratory Compaction Temperature, °F	AI Tech Bulletin	260-275	290-300	302-312

Availability / Shipment Method

PG Grade	PG 52-34	PG 64-28	PG 67-22	PG 70-22
Bay City	TT	TT	TT	TT
South Bend	Not Available	TT	TT	TT

Regular Availability

Special Request

Key: TT - Tanker Truck RC - Rail Car B - Barge

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