

BP Performance Grade PG Asphalt Binders Type DD



BP Performance Grade - Type DD Asphalt Binders contain elastomeric modifiers and are designed for more demanding paving applications.

Technical Datasheet



Quality Assurance

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

Availability

BP Type DD 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 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 a procedure developed by MTE.

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 58-34	PG 70-28	PG 76-28	PG 76-22
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	58	70	76	76
			≥ 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	58	70	76	76
			≥ 2.20		
PAV Residue (Aging Temperature, °C)					
	R 28		100		
Dynamic Shear @ Grade Temperature, °C G*/sin Δ @ 10 rad/sec, kPa	T 315	16	25	28	31
			≤ 5000		
Creep Stiffness S, Mpa m-value	T 313 T 313	-24	-18	-18	-22
			≤ 300		
			≥ 0.30		

Typical Data

PG Grade		PG 58-34	PG 70-28	PG 76-28	PG 76-22
Specific Gravity at 60°F (15.6°C)	T 228	1.031	1.038	1.037	1.043
Pounds per Gallon at 60°F (15.6°C)		8.586	8.645	8.636	8.686
Laboratory Mixing Temperature, °F	AI Tech Bulletin	290-300	313-324	315-330	326-337
Laboratory Compaction Temperature, °F	AI Tech Bulletin	272-280	295-303	295-310	307-316

Availability / Shipment Method

PG Grade	PG 58-34	PG 70-28	PG 76-28	PG 76-22
Bay City	TT			
South Bend	Not Available	TT	TT	TT

Regular Availability Special Request

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

For further information contact:

BP Products North America Inc. 200 E. Randolph Drive, Suite 6907, Chicago, IL 60601, USA

Tel: (312) 577-2966 Fax: (312) 577-2990

E-mail: asphaltinquiries@bp.com Web: www.bp.com/bitumen-usa

