

PG 70 Bitumen

TEST METHOD	LIMIT	ASTM	AASHTO	PG-58-22	PG-70-16	PG-76-10	PG64-22
Flash point (°C)	230 °C min	D92	T48	303	300	320	312
Rotational Viscosity@135 °C	3 Pa.s max	D4402	T316	0.282	0.425	0.425	0.323
DSR (°C)				58	70	76	64
G*/sin (°C) 10 rad/s	1.0 K Pa Min	D7175	T315	1.51	1.1	1.2	1.14
RTFOT G*/sin (°C) 10 rad/s	2.20 K Pa Min	D7175	T315	2.71	2.3	2.25	2.9
Change of mass after RTFOT	1% Max	D2872	T240	0.08	0.12	0.12	0.06
PAV		D5621	R25		100 (110) (°C) T (C°)		
RTFOT G*/sin (°C) 10 rad/s	K Pa 5000 Max	D57172	T315	3330	2440	2720	2950
BBR (°C)				-12	-6	0	-12
Stiffness Mpa	300 Mpa Max	D6648	T313	266	206	176	234
m-valua	0.03 Min	D6648	T3123	0.309	0.32	0.35	0.3

PG70 bitumen is a type of performance bitumen produced from crude oil. Due to its performance grade of 70, this bitumen has good performance at temperatures above 70°C. PG70 bitumen is widely used in construction, road construction and asphalt production.

Physical Properties :

- Penetration Rate : Between 120 and 150 mm at 25°C.
- Softening Point : At least 38°C.
- Density : Between 1.04 and 1.06 g/cm³.
- Viscosity : Between 100 and 150 seconds at 100°C.

Applications :

- Sealing and Insulation:
PG70 bitumen is used as insulation in buildings and structures.
- Road construction and maintenance:
This bitumen is used especially in cold regions for road construction and maintenance.
- Asphalt production:
PG70 bitumen is one of the main materials in asphalt production used in road construction.