

PG 76-22 Rubberized Asphalt Guide Specification

Test and Method	Conditions	Specification Minimum/Maximum Value
Original Binder		
Flash Point, AASHTO T 48-06 (2010)	Cleveland Open Cup	Minimum 450°F
Rotational Viscosity, AASHTO T 316-11	275°F	Maximum 3 Pa·s ^(a)
Dynamic Shear Rheometer, AASHTO T 315-10	G [*] /sin δ, Test Temperature @ 10 rad/sec, °C Phase Angle, δ PG 76-22 (RAB) ^(b)	Minimum 1.00 kPa
Separation Test, ASTM D 7173-11 and Softening Point, AASHTO T 53-11	163±5°C 48 hours	Maximum 7°F
Rolling Thin Film Oven Test Residue (AASHTO T 240-09)		
Rolling Thin Film Oven, AASHTO T 240-09	Mass Change%	Maximum 1.00
Multiple Stress Creep Recovery, J _{nr, 3.2} ^(b,c,d) AASHTO TP 70-11	67°C	“V” = 1.0 Pa·s max “E” = 0.5 Pa·s max Maximum J _{nr,diff} = 75%
Pressure Aging Vessel Residue (AASHTO R 28-09) at 100°C		
Dynamic Shear Rheometer, AASHTO T 315-10	G [*] sin δ, 10 rad/sec.	Maximum 5000 kPa
Creep Stiffness, AASHTO T 313-10	S (Stiffness), @ 60 sec. M-value, @ 60 sec.	Maximum 300 MPa Minimum 0.300

(a): Binders with values higher than 3 Pa·s should be used with caution and only after consulting with the supplier as to any special handling procedures, including pumping capabilities.

(b): AASHTO T 315-10 and AASHTO TP 70-11 will be performed at a 2 mm gap for PG 76-22 (RAB)

(c): All binders with a high temperature designation >67 will be tested at 67°C. PG 76-22 (PMA) and PG 76-22 (ARB) shall pass a “V” graded and PG 82-22 (PMA) shall pass an “E” grade per AASHTO MP 19-10.

(d): if J_{nr, 3.2} ≤ 0.25 then the 75% maximum J_{nr} difference requirement is waived.