

 Manitoba Infrastructure MATERIALS ENGINEERING BRANCH	Standard No.: APL-101-2
	<u>Effective Date</u> Current: November 2020 Previous: April 2020
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Materials Specification For: Performance Graded Asphalt Cement	

Performance grade asphalt cements shall meet the requirements for AASHTO M320 Standard Specification for Performance Graded Asphalt Binder.

Asphalt cements designated PG58-37P, shall be evaluated in accordance to the following criteria:

- Creep stiffness and direct tension test temperature shall be -27°C
- Dynamic Shear criteria on PAV residue shall be met at a temperature of 14.5°C or lower

Grades outlined in Table 1 shall meet AASHTO M320 specifications through the use of polymer additives.

Grades shall be tested at a temperature of 58°C to determine the average percent recovery at 3.2kPa (R_{3.2}) according to the requirements of AASHTO T350 Multiple Stress Creep Recovery (MSCR) Test using a Dynamic Shear Rheometer. Table 1 outlines the minimum MSCR Elastic Recovery requirements.

Table 1 – Elastic Recovery Requirements

PGAC	Minimum R_{3.2@58°C}
58-34P, 64-34P	25%
58-37P, 58-40P, 64-37P	40%