

1206 - POLYMER MODIFIED ASPHALT CEMENT FOR CHIP SEALS

SECTION 1206

POLYMER MODIFIED ASPHALT CEMENT FOR CHIP SEALS

1206.1 DESCRIPTION

This specification covers polymer modified (tire rubber and/or SBS) asphalt cement for use in chip seals.

1206.2 REQUIREMENTS

Provide material that complies with the requirements shown in **TABLE 1206-1**.

TABLE 1206-1: ASPHALT CEMENT FOR CHIP SEALS				
	AC-20-5TR		AC-10-2TR	
	Min.	Max.	Min.	Max.
Polymer	TR & SBS ⁽¹⁾		TR & SBS ⁽²⁾	
Polymer Content, %	5	-----	3	-----
Dynamic shear, G*/sin δ, 64°C, 10 rad/s, kPa	1.0	-----	-----	-----
Dynamic shear, G*/sin δ, 58°C, 10 rad/s, kPa	-----	-----	1.0	-----
Viscosity, 140°F, Poise	2,000	-----	1,000	-----
Penetration, 77°F, 100g, 5sec	75	115	95	130
Elastic Recovery, ASTM D6084 50°F, % Recovery, 1 hour	55	-----	30	-----
Softening Point, °F	120	-----	110	-----
<u>Test of Residues from RTFO Aging and PAV</u>				
<u>Bending Beam Rheometer at - 18°C, MPa</u>				
Creep Stiffness	-----	300	-----	300
m-value	0.300	-----	0.300	-----

(1) Produce the AC-20-5TR with a minimum of 5% scrap, group, whole tire rubber.

(2) Produce the AC-10-2TR will a minimum of 3% polymers to include a combination of tire rubber and SBS.

1206.3 TEST METHODS

Test according to the applicable provisions of ASTM D 36 and D 6084 Procedure B, and AASHTO T 49, T 202, T 313, and T 315.

1206.4 PREQUALIFICATION

Prequalify material according to **SECTION 1201**.

1206.5 BASIS OF ACCEPTANCE

See applicable requirements under **SECTION 1201**.