

GRADING OF MODIFIED BITUMEN

| SL NO (1) | Characteristics (2) | Grades and Requirements | | | | |
|--------------|---|---|---------------------|---------------------|---------------------|---------------------|
| | | PMB 64-10 (3) | PMB 70-10 (4) | PMB 76-10 (5) | PMB 82-10 (6) | PMB 76-22 (7) |
| | | (A) Tests to be Carried out on original Binder | | | | |
| I) | Softening point (R and B), °C, Min | 60 | 65 | 70 | 80 | 75 |
| II) | Elastic recovery of half thread in ductilometer at 15°C, percent, Min | 70 | 70 | 70 | 85 | 80 |
| III) | Flash point COC, °C Min | 230 | 230 | 230 | 230 | 230 |
| IV) | Viscosity at 150°C, Pa.s, Max | 1.2 | 1.2 | 1.2 | 1.6 | 1.5 |
| V) | Complex Modulus(G*) divided by Sin delta(G*/sin) as Min 1.0 Kpa, 25 mm Plate, 1 mm Gap, at 10 rad/s, at a temperature, °C | 64 | 70 | 76 | 82 | 76 |
| VI) | Phase Angle (δ), degree, Max | 75 | 75 | 75 | 75 | 75 |
| VII) | Separation, Difference in softening point (R&B), °C, Max | 3 | 3 | 3 | 3 | 3 |
| VIII) | FRAASS Breaking 1) point, °C, Max | -10 | -10 | -10 | -10 | -22 |

