



# PMB 76-10

(Polymer Modified Bitumen)

## PRODUCT DATA SHEET

Polymer Modified Bitumen (PMB) 76-10 is an asphalt binder that is modified with polymers to enhance its performance under different temperature conditions and heavy loads. The designation "76-10" indicates the temperature range in which this bitumen can effectively perform.

CHARACTERISTICS	UNIT	LIMITS	TEST METHODS
Softening Point, Ring & Ball	°C	Min. 70	ASTM D36
Elastic Recovery at 15°C	%	Min. 70	ASTM D6084
Flash Point Cleveland open cup	°C	Min. 230	ASTM D92
Viscosity at 150 °C	Pa.s	Max. 1.2	ASTM D2171
Complex modulus $G^*/\sin \delta$ at 76°C, 25mm Plate, 1mm Gap, at 10rad/s	kPa	Min. 1.0	ASTM D7175
Phase Angle ( $\delta$ )	degrees (°)	max. 75	ASTM D7175
Separation, Difference in Softening Point	°C	Max. 3	-
FRAASS Breaking Point <sup>a</sup>	°C	Max. -10	EN 12593
<b>After Rolling Thin-Film Oven Test (RTFO)</b>			
Loss on Heating	%Wt	Max. 1.0	ASTM D6
Complex modulus $G^*/\sin \delta$ at 76°C, 25mm Plate, 1mm Gap, at 10rad/s	kPa	Min. 2.2	ASTM D7175
<b>Multiple Stress Creep Recovery (MSCR) test</b>			
a) Standard Traffic (S), Jnr 3.2, Jnr diff Max 75% at 76°C	kPa-1	Max. 4.5	ASTM D7405
b) Heavy Traffic (H), Jnr 3.2, Jnr diff Max 75% at 76°C	kPa-1	Max. 2.0	ASTM D7405
c) Very Heavy Traffic (H), Jnr 3.2, Jnr diff Max 75% at 76°C	kPa-1	Max. 1.0	ASTM D7405
d) Extremely Heavy Traffic (H), Jnr 3.2, Jnr diff Max 75% at 76°C	kPa-1	Max. 0.5	ASTM D7405
<b>Pressure Aging Vessel Residue (PAV)</b>			
Complex modulus $G^*/\sin \delta$ at 37°C, 8mm Plate, 2mm Gap, at 10rad/s	kPa	Max. 6000	ASTM D7175

### Notes:

<sup>a</sup> - FRAASS Breaking Point only to be evaluated in case the project site has subzero temp conditions.

### Quality:

Certification is conducted through our in-house testing laboratory, and witness testing protocols are available before cargo release. We ensure the quality of bitumen for every delivery by arranging for an international inspector to assess quality.

### Application:

PMB 76-10 is a polymer-modified bitumen designed to handle temperatures from 76°C to -10°C. Its polymer modification enhances its elasticity, resistance to deformation, and durability, making it ideal for use in highways, bridges, airport runways, industrial roads, and regions with hot climates. It provides the necessary

### Packaging:

New steel drums, reconditioned steel drums or eco-friendly Weatherproof packaging in poly bags and also in Bulk.

Steel Drums: 150Kg, 180Kg, 200Kg

Poly Bags: 300Kg, 1000Kg

Bulk: Bitumen Tank Container

### Code Approvals/Compliance:

Meets IS 15462:2019

[Learn More](#)



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flexibility and stability to withstand high traffic loads and temperature fluctuations.

Proper storage and handling are crucial for maintaining its quality and ensuring optimal performance.

### **Health & Safety:**

Bitumen is unlikely to present any significant health or safety hazard when properly used in the recommended application, provided good standards of industrial and personal hygiene are maintained.

[www.nuroil.com](http://www.nuroil.com)

For further information, please contact:

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