



PMB 82-10

(Polymer Modified Bitumen)

PRODUCT DATA SHEET

Polymer Modified Bitumen (PMB) 82-10 is a specialized type of asphalt binder that is enhanced with polymers to improve its performance properties, especially in regions with high temperatures and heavy traffic. The designation "82-10" indicates the temperature range within which this bitumen can effectively perform.

CHARACTERISTICS	UNIT	LIMITS	TEST METHODS
Softening Point, Ring & Ball	°C	Min. 80	ASTM D36
Elastic Recovery at 15°C	%	Min. 85	ASTM D6084
Flash Point Cleveland open cup	°C	Min. 230	ASTM D92
Viscosity at 150 °C	Pa.s	Max. 1.6	ASTM D2171
Complex modulus $G^*/\sin \delta$ at 82°C, 25mm Plate, 1mm Gap, at 10rad/s	kPa	Min. 1.0	ASTM D7175
Phase Angle (δ)	degrees (°)	max. 75	ASTM D7175
Separation, Difference in Softening Point	°C	Max. 3	-
FRAASS Breaking Point ^a	°C	Max. -10	EN 12593
After Rolling Thin-Film Oven Test (RTFO)			
Loss on Heating	%Wt	Max. 1.0	ASTM D6
Complex modulus $G^*/\sin \delta$ at 82°C, 25mm Plate, 1mm Gap, at 10rad/s	kPa	Min. 2.2	ASTM D7175
Multiple Stress Creep Recovery (MSCR) test			
a) Standard Traffic (S), Jnr 3.2, Jnr diff Max 75% at 82°C	kPa-1	Max. 4.5	ASTM D7405
b) Heavy Traffic (H), Jnr 3.2, Jnr diff Max 75% at 82°C	kPa-1	Max. 2.0	ASTM D7405
c) Very Heavy Traffic (H), Jnr 3.2, Jnr diff Max 75% at 82°C	kPa-1	Max. 1.0	ASTM D7405
d) Extremely Heavy Traffic (H), Jnr 3.2, Jnr diff Max 75% at 82°C	kPa-1	Max. 0.5	ASTM D7405
Pressure Aging Vessel Residue (PAV)			
Complex modulus $G^*/\sin \delta$ at 40°C, 8mm Plate, 2mm Gap, at 10rad/s	kPa	Max. 6000	ASTM D7175

Notes:

^a - 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 82-10 is a polymer-modified bitumen designed to perform effectively at temperatures from 82°C to -10°C. The polymer modification enhances the bitumen's elasticity, durability, and resistance to both rutting and cracking. This makes it ideal for use in highways, airport runways, industrial roads, bridges, and urban

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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areas where roads are exposed to high temperatures, heavy traffic, and significant load stresses.

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

For further information, please contact:

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Disclaimer: The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.