



# AIWIN POLYMER MODIFIED BITUMEN

## PERFORMANCE GRADE / AIWIN PG 70-10



### Performance Graded (Superpave™) Modified Asphalt Binder, complies with OAASHTO M 320 and ASTM D 6373

Performance Graded Asphalt Binder, used in the construction and maintenance of pavements

- Complies with the requirements of AASHTO M 320 and ASTM D 6373.
- Meets the SHRP Super pave™ requirements.
- Meets with MOT (Ministry of Transport) requirements

AIWIN PMB is a polymer modified bitumen consisting of high-quality bitumen binder compounded with the highest quality elastomeric polymers and processed in a state of the art mixing plant to obtain a totally consistent and homogenous PMB meeting the requirements of performance grade super-pave system

AIWIN PMB PG 70-10 are generally composed of elastomeric, plastomeric compounds and performance enhancing additives to achieve the best elastic effect and other required properties for PMB.

### Original Binder

CHARACTERISTICS	TPYICAL RESULTS	TEST METHOD
Flash Point (COC), minimum, °C	230	ASTM D 92 ,
Viscosity at 135°C, maximum, mPa.s (cP)	3,000	AASHTO T48
Dynamic Shear@70°C, G*/sin, 25 mm plate, 1 mm gap, at 10 rad/s, minimum kPa	1.00	ASTM D 4402 ASTM P 246
Water Content, %	None	AASHTO TP5

### Rolling Thin Film Oven Test (RTFOT) Residue

CHARACTERISTICS	TPYICAL RESULTS	TEST METHOD
Mass of Loss, maximum, %	1.00	ASTM D 2872, AASHTO T240
Dynamic Shear@70°C, G*/sin, 25 mm plate, 1 mm gap, at 10 rad/s, minimum kPa	2.20	ASTM D P 246 AASHTO TP5

### Pressure Aging Vessel (PAV) Residue at 110 °C

CHARACTERISTICS	TPYICAL RESULTS	TEST METHOD
Dynamic Shear @ 34 °C , G*/sin , 8 mm plate, 2 mm gap, at 10 rad/s, maximum kPa	5,000	ASTM P 246 AASHTO TP5
Creep Stiffness, S, m-value, min. 0.300 @ 0°C, at 60s, maximum, Mpa	300	ASTM P 245 AASHTO TP1
Direct Tension, Failure Strain, @ 0 °C, at 1.0 mm/min., minimum, %	1.0	ASTM P 252 AASHTO TP3

This technical data complement to ASTM, B.S, and UEAtc.

This product data sheet supersedes all previous data publication pertaining to this product.

All values given refer to standard production within the usual factory tolerance.

(Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to standard).

Aiwin reserve the right to change said values without advance notice but without affecting the quality of the product.

Reissued in 2020

Made in Jordan