



Technical Data Sheet

Polymer Modified PG Asphalt Binders

Typical Uses:

Associated Asphalt's Polymer Modified Performance Graded Asphalt Binders are high performance asphalts for hot mix asphalt production in hot mix plants. It can be incorporated into any appropriate mix design where a polymer modified performance graded binder is specified or where there is a demand for increased resistance to rutting or cracking. Performance grading of asphalt binders is based on the high and low pavement temperatures, in degrees Celsius, and is typically graded in six degree increments. Our Polymer Modified Performance Graded Asphalt Binders are produced to meet AASHTO M-320, M-332 and the local agency specifications in which we sell.

Storage and Handling:

Agitated storage tanks are recommended but not required. For most modified asphalt binders, we recommend periodic agitation of one hour of agitation daily. Non-agitated tanks should be recirculated (tank volume has been turned over at least once) before start of production.

Excess heating and extended storage time can cause significant property changes to the asphalts properties. Samples may need to be taken to verify DSR or viscosities. If any changes have occurred, it would be recommended to have full compliance testing performed to ensure quality prior to use.

Recommended storage temperatures are listed below.

Guideline for Field Mixing and Compaction Temperature:

Mixing and compaction temperatures are dependent on the binder grade supply, mix design, lift thickness, atmospheric conditions, use of warm mix additives, paving equipment being used, and the desired compaction temperature at the paving site. It is recommended to determine compaction temperature by placing test sections in the roadway monitoring temperature and density. The placement procedures, lift thicknesses, and rolling patterns should be checked and validated first. Then, if density/breakdown target is not achieved, compaction temperature could be raised. Our recommended HMA plant mixing temperatures are listed below.

Test/Specifications:

Associated Asphalt certifies our Performance Graded Asphalt Binders to meet AASHTO M-320, M-332 specifications and local agency specifications. Our asphalt binders can also be certified to meet ASTM specifications for FAA and other industrial uses. Please contact us for a complete certificate of analysis.

Caution:

Read SDS prior to use. Wear appropriate PPE and follow all safe handling guidelines. Use with adequate ventilation and avoid breathing vapor or fumes. Avoid contact with skin as hot product can cause thermal burns. In case of contact with skin or eyes, flush with cool water for at least 15 minutes and get medical attention. Do not remove product from skin.

Judgments as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, Associated Asphalt Partners, LLC and/or its subsidiaries extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequence of its use.

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Recommended Asphalt Binder Temperatures

Binder Grade	Asphalt Tank Temperature (°F)	HMA Plant Mixing Temperature (°F)	
	Range	Range	Midpoint
PG 70-22 M	295 – 320	275 - 325	300
PG 70-28	295 - 320	275 - 325	300
PG 70-28 BRIC	315 - 330	295 - 335	310
PG 76-22 (PG 64E-22)	315 – 330	285 - 335	310
PG 76-22 ARB	315 – 330	285 - 335	310
PG 76-22 PORT	315 – 330	285 - 335	310
PG 76 HRAP	315 – 330	285 - 335	310
StellarFlex HiMA (PG 76E-28 HP & BDWSC)	320 – 340	290 - 340	315
StellarFlex CR	320 – 340	290 - 340	315
StellarFlex GTRH	320 – 340	290 - 340	315
StellarFlex FG	315 – 330	285 - 335	310
PG 76-28	310 - 325	280 - 330	305
PG 82-10	315 - 335	290 - 340	315
PG 82-22	315 – 335	290 - 340	315
PG 82-28 FR	315 – 335	290 – 340	315
PG 88-22 FR	320 – 340	295 - 345	320

The above chart establishing asphalt storage temperatures and plant mixing-production temperatures is meant as a guide only. The temperatures listed are appropriate for dense-graded HMA mixes and may not be applicable for open-graded and gap-graded HMA mixes. The actual temperature will be determined by the test strip. This temperature should be determined in consultation with the asphalt supplier, since factors such as crude base; refining process, blending, and additives may have an effect on the binder properties relating to constructability. Please contact your area sales or technical representative for additional information or grade specific handling instructions.