

205 s Emerald Rd

Tooele, UT 84074

SUPERPAVE™ Binder Gra	de: PG 64-34 UT				
Sample	ID: 2024 Mix Design				
Sample Condition (ie Good/Ope	en): Good	Date Tested:	1/6/2024	By:	JH
Test		Temp	Method	Specification	Result
ORIGINAL BINDER					
AASHTO M 320 Requirements					
Viscosity, Pa*s		135°C	T 316	3.0 max	1.275
Dynamic Shear	G*, 10 rad./sec., kPa	64°C	T 315	1.3 min	1.75
	Phase Angle, δ (°)			71 max	68.2°
RTFOT RESIDUE					
AASHTO M 320 Requirements					
Mass Change, % (Mass Loss is reported as Negative)			T 240	1.0 max	-0.315%
Dynamic Shear	G*/sinδ, 10 rad./sec., kPa	64°C	T 315	2.2 min	3.88
Additional Requirements					
Elastic Recovery, %		25°C	T 301	85 min	91%
PRESSURE AGING RESIDUE (100°C, 300 psi, 20 hr.)				
AASHTO M 320 Requirements					
Dynamic Shear	G*(sinδ), 10 rad./sec., kPa	19°C	T 315	5,000 max	1713
Creep Stiffness	Stiffness, MPa (60 sec.)	-24°C	T 313	150-300	237
	m Value			0.300 min	0.338
Creep Stiffness -6°C	Stiffness, MPa (60 sec.)	-30°C	T 313	Report	508
	m Value			Report	0.276
Delta Tc		-	-1 min	1.82	

*Result from subcontractor

The Mixing Temperature Range corresponding to a viscosity range of 0.15 to 0.19 Pa.s, is 309-316°F. The Compaction Temperature Range corresponding to a viscosity range of 0.25 to 0.31 Pa.s, is 291-297°F. These are laboratory mixing and compaction estimates, adjustments to the temperatures are likely needed for laboratory testing and verification, as well as in the field.

Notes: This sample complied with the requirments of UDOT Section 02745 - Asphalt Materials, PG 64-34

Tested By:

Jameson Hulse, Binder Tech

Reviewed By:

1º

Gene Chrisenbery, Vice President

Typical Temperature-Viscosity Graph

Material	PG 64-34	
Specific Gravity, 15°C	1.030	

Recomm	Recommended Mix and Compaction Temperature				
PG 64-34	Mixing Hi Limit	316 °F			
PG 64-34	Mixing Low Limit	309 °F			
PG 64-34	Comp High Limit	297 °F			
PG 64-34	Comp Low Limit	291 °F			

Correlation

0.9877

