

## 205 s Emerald Rd Tooele, UT 84074

PG 70-28 UT								
2024 Mix Design								
Good	Date Tested:	1/6/2024	By:	JH				
Test		Method	Specification	Result				
ORIGINAL BINDER								
AASHTO M 320 Requirements								
	135°C	T 316	3.0 max	2.037				
G*, 10 rad./sec., kPa	70°C	T 315	1.3 min	1.78				
Phase Angle, δ (°)			71 max	66.2°				
Additional Requirements								
RTFOT RESIDUE								
AASHTO M 320 Requirements								
Mass Change, % (Mass Loss is reported as Negative)			1.0 max	-0.149%				
G*/sinδ, 10 rad./sec., kPa	70°C	T 315	2.2 min	3.74				
Dynamic Shear G*/sinδ, 10 rad./sec., kPa 70°C T 315 2.2 min 3.74 Additional Requirements								
	25°C	T 301	85 min	91%				
°C, 300 psi, 20 hr.)								
G*(sinδ), 10 rad./sec., kPa	25°C	T 315	5,000 max	1665				
Stiffness, MPa (60 sec.)	-18°C	T 313	150-300	184				
m Value			0.300 min	0.349				
Stiffness, MPa (60 sec.)	-24°C	T 313	Report	388				
m Value			Report	0.285				
Delta Tc			-1 min	0.662				
	G*, 10 rad./sec., kPa Phase Angle, δ (°)  orted as Negative)  G*/sinδ, 10 rad./sec., kPa  PC, 300 psi, 20 hr.)  G*(sinδ), 10 rad./sec., kPa  Stiffness, MPa (60 sec.)  m Value Stiffness, MPa (60 sec.)	2024 Mix Design   Date Tested:	Cod   Date Tested: 1/6/2024	Date Tested: 1/6/2024   By:				

<sup>\*</sup>Result from subcontractor

The Mixing Temperature Range corresponding to a viscosity range of 0.15 to 0.19 Pa.s, is 323-331°F. The Compaction Temperature Range corresponding to a viscosity range of 0.25 to 0.31 Pa.s, is 304-311°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 70-28

Tested By:				
	Jameson Hulse, Binder Tech			
Reviewed By:	Love Chiefy			
	Gene Chrisenbery, Vice President			

## **Typical Temperature-Viscosity Graph**

Material Specific Gravity, 15°C PG 70-28 1.031

**Recommended Mix and Compaction Temperature** 

	PG 70-28	Mixing Hi Limit	331 °F
	PG 70-28	Mixing Low Limit	323 °F
	PG 70-28	Comp High Limit	311 °F
Г	PG 70-28	Comp Low Limit	304 °F

Correlation 0.9999

