

205 s Emerald Rd Tooele, UT 84074

SUPERPAVE™ Binder Grade:	PG 64-28NV	Date Recieved:	11/5/2023	By: JH
Sample ID:	2024 MD			
Sample Condition (ie Good/Open):	Good	Date Tested:	11/5/2023	By: JH

Test		Temp	Method	Specification	Result	
ORIGINAL BINDER						
Viscosity, Pa*s		135°C	T 316	3.0 max	0.625	
Dynamic Shear	G*/sinδ, 10 rad./sec., kPa	64°C	T 315	1.00 min	1.19	
Additional Requirements						
Sieve Particulate Retained		-	NDOT T730	0	0	
Ductility (5 cm/min.), cm		4°C	NDOT T746	50 min	65+	
Toughness & Tenacity	Toughness	25°C	NDOT T745	110 min	115.6	
	Tenacity	25°C		75 min	107.1	
RTFOT RESIDUE						
Mass Change, % (Mass Loss is reported as Negative)			NDOT T728	1.0 max	-0.348%	
Dynamic Shear	G*/sinδ, 10 rad./sec., kPa	64°C	T 315	2.2 min	2.55	
Additional Requirements						
Ductility (5 cm/min.), cm		4°C	NDOT T 746	25 min	32	
PRESSURE AGING RESIDUE (100°C, 300 psi, 20 hr.)						
Dynamic Shear	G*(sinδ), 10 rad./sec., kPa	22°C	T 315	5,000 max	1463	
Creep Stiffness	Stiffness, MPa (60 sec.)	-18°C	T 313	300 max	116	
	m Value			0.300 min	0.381	

The Mixing Temperature Range corresponding to a viscosity range of 0.15 to 0.19 Pa.s, is 294-302°F. The Compaction Temperature Range corresponding to a viscosity range of 0.25 to 0.31 Pa.s, is 275-282°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 NDOT Section 703 - Bituminous Materials, PG 64-28

Tested By:

Jameson Hulse, Binder Tech

Reviewed By:

Gene Chrisenbery, Vice President

Typical Temperature-Viscosity Graph

Material Specific Gravity, 15°C PG 64-28NV 1.030

Recommended Mix and Compaction Temperature

PG 64-28NV	Mixing Hi Limit	302 °F
PG 64-28NV	Mixing Low Limit	294 °F
PG 64-28NV	Comp High Limit	282 °F
PG 64-28NV	Comp Low Limit	275 °F

Correlation 1.0000

