

# Optimization of Tape Casting and Sintering LLZO

Binder System	Health/Safety	Usable	Foaming	Carrier Release	Mechanical Properties	Oxide-Only Density (%)
PII - Aqueous	Aqueous	Gels	-	-	-	-
PVB	Ethanol/Acetone	Yes - Certain Solvents	No	Poor	-	-
Methyl Cellulose	Aqueous	Yes	Yes - Additive	Dewetting - Additive	Good	40.2
Ethyl cellulose	Toluene/Ethanol	Yes	Minor	Good	Brittle	38.6
PII - Solvent	Toluene/Xylene	Yes	No	Good	Good	41.7

