



LICO Technology Corporation

LPG-320 Potato Graphite Material Properties

Potato Graphite

- 1. Designed for EV Application**
- 2. High C rate**
- 3. Compatible Capacity with MCMB**
- 4. Low Cost (about 50% cost down)**

Potato Graphite (LPG-320): 20 um

Material Properties:

Particle Size (D_{50}) $21 \pm 3 \mu\text{m}$

Tap Density $\approx 0.9 \text{ g/ml}$

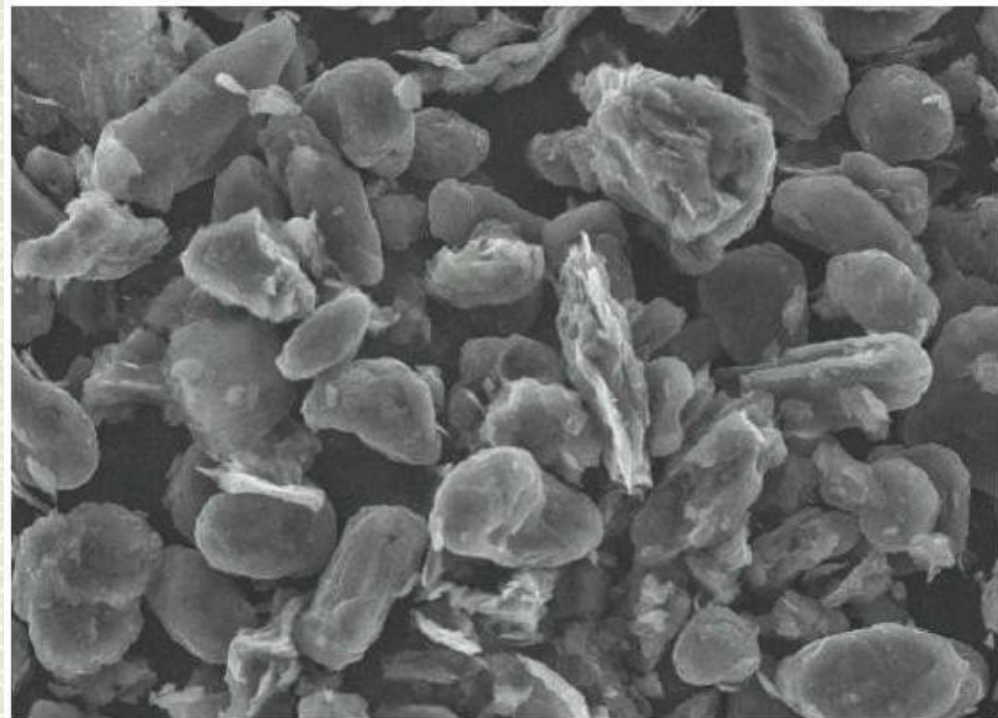
Moisture $<0.1\%$

BET $4.0 \pm 1 \text{ m}^2/\text{g}$

1st Chg Cap $\approx 370 \text{ mAh/g}$

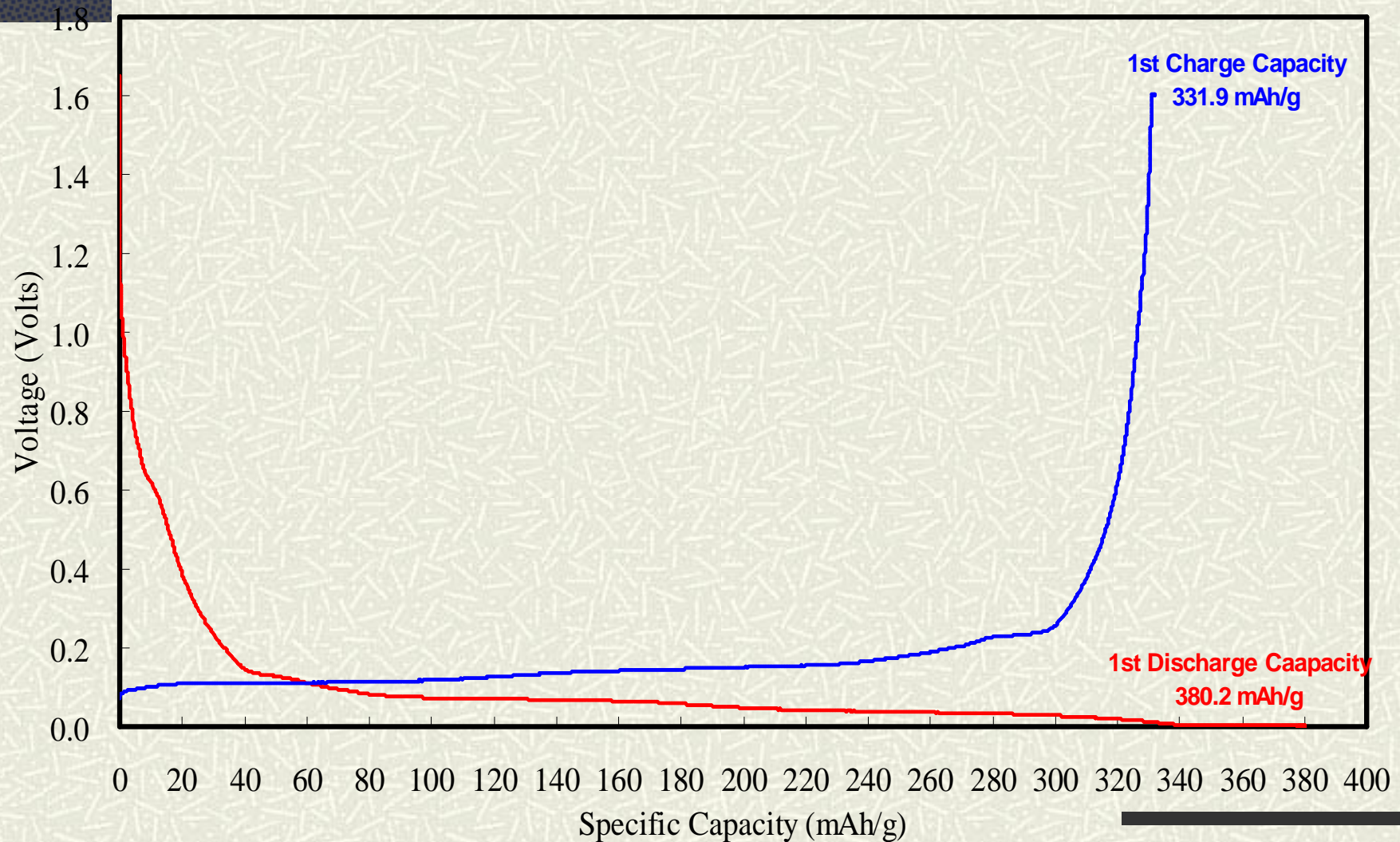
1st DChg Cap $\approx 325 \text{ mAh/g}$

SEM Picture



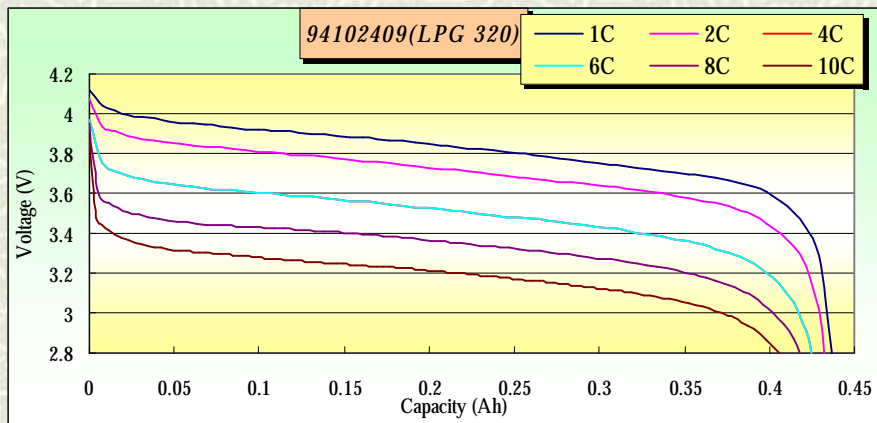
60 μm

Coin Cell Test for Potato Graphite (LPG-320)

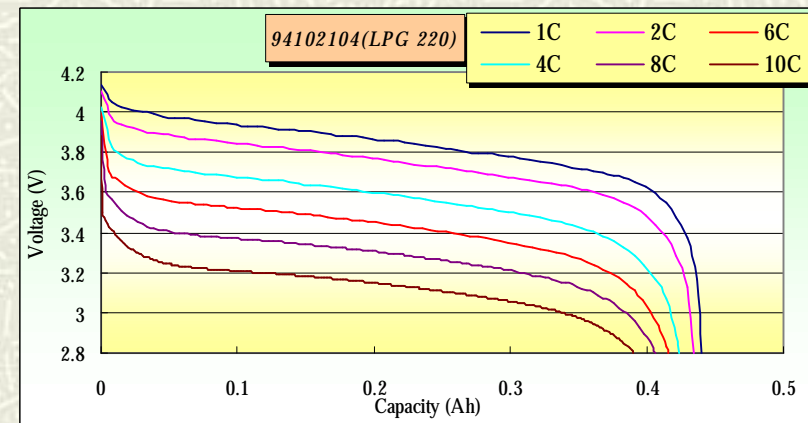


Cycling test of ITRI LiMn₂O₄/LICO Graphite 18650 cells at RT

ITRI LiMn₂O₄/LICO LPG-320



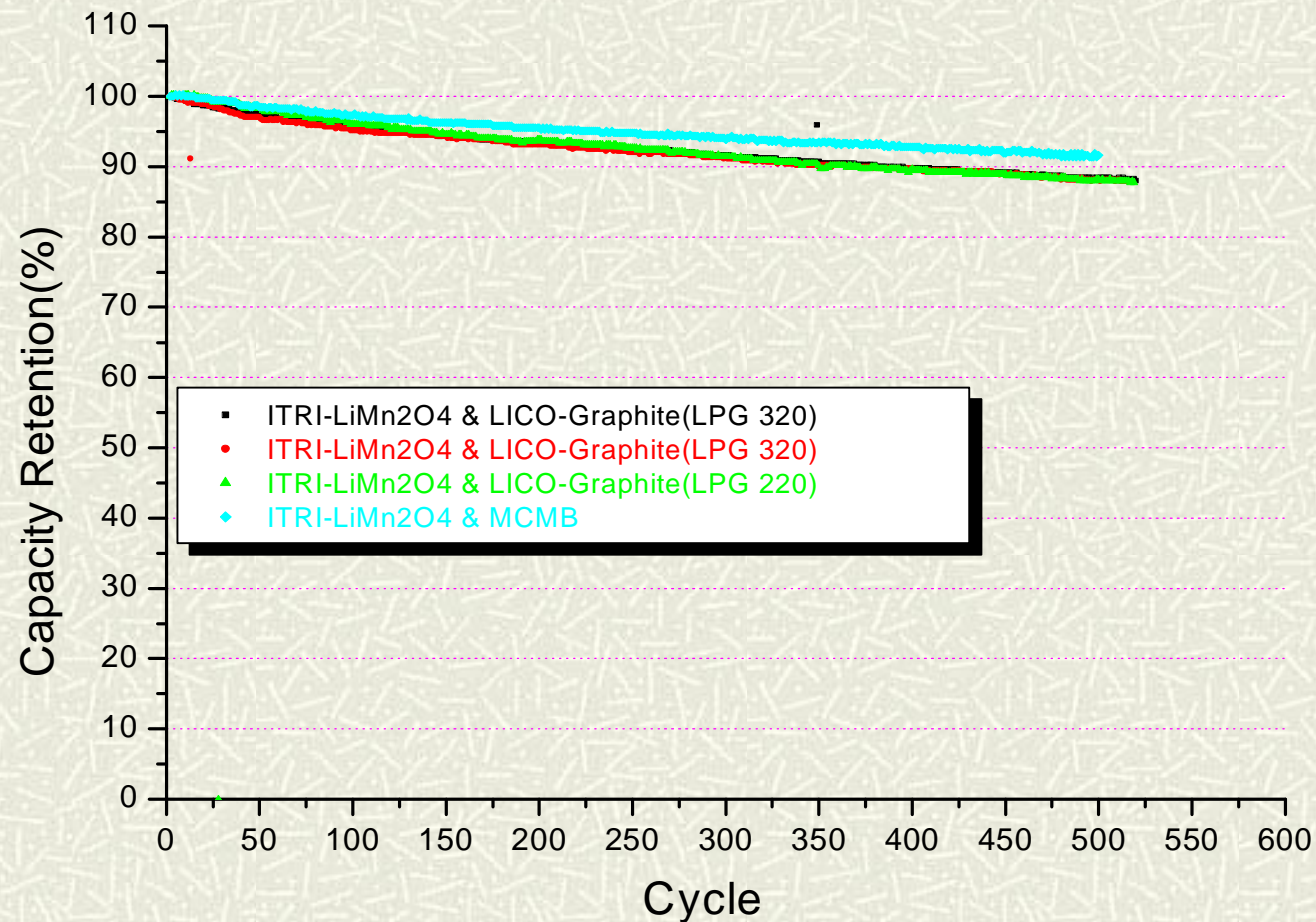
ITRI LiMn₂O₄/LICO LPG-220



	<i>Retention(%)</i>				
	<i>2C/1C</i>	<i>4C/1C</i>	<i>6C/1C</i>	<i>8C/1C</i>	<i>10C/1C</i>
<i>94102409(LPG 320)</i>	<i>99</i>	<i>97</i>	<i>97</i>	<i>96</i>	<i>93</i>
<i>94102104(LPG 220)</i>	<i>99</i>	<i>96</i>	<i>94</i>	<i>92</i>	<i>89</i>

Cycling test of ITRI LiMn₂O₄/LICO Graphite 18650 cells at RT

Li Mn₂O₄配不同負極 RT 1C-3C



Cycling test of MRL LiMn_2O_4 /LICO Graphite 18650 cells at 55°C

Li Mn2O4配不同負極 HT 1C-3C

