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电池标签解决方案

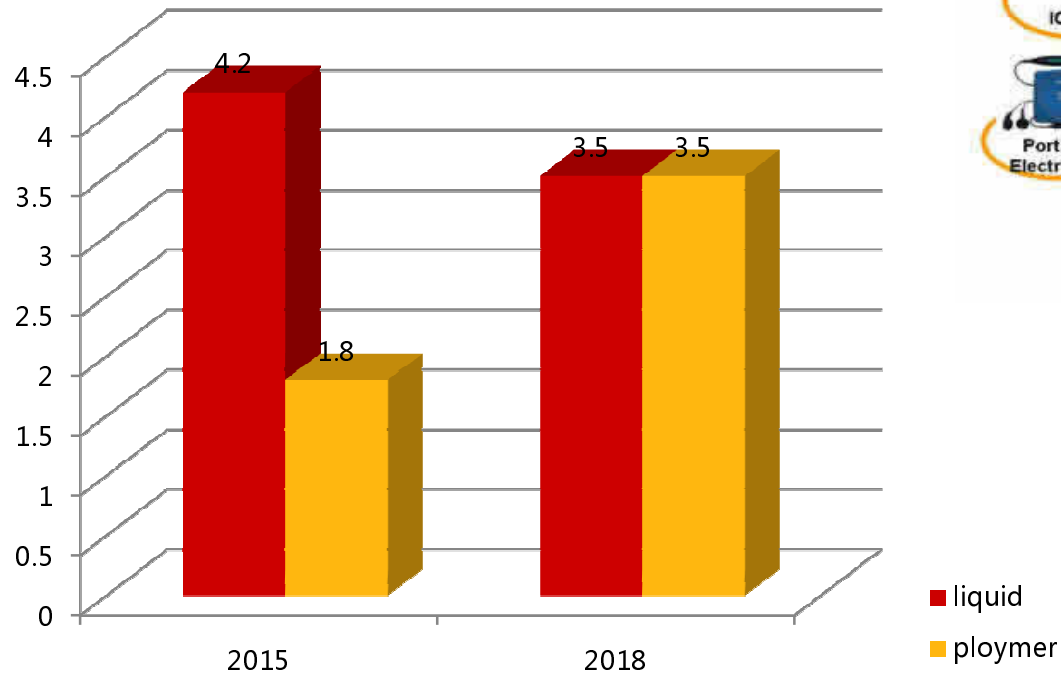


目录

- 聚合物锂离子电池
- 电池标签介绍
- 电池 Wrapping应用介绍
- 电池 Sealing应用介绍

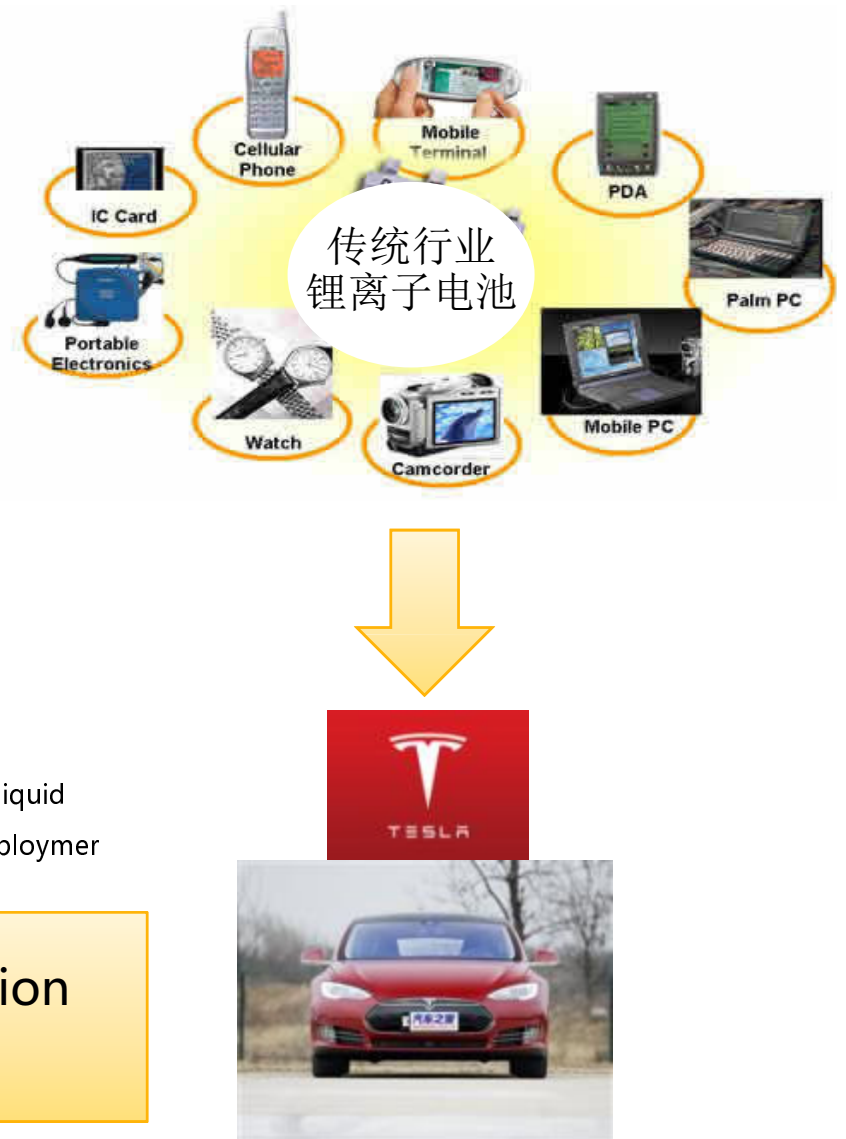
聚合物锂离子电池

billion



2016 Li battery forecast: will up to 6 billion pieces and polymer battery is 30%

数据来源：中商产业研究院数据库（AskCIData）



电池标签介绍

主要功能：

- ✓ 商标安全等信息识别
- ✓ 电池保护
- ✓ 防伪
- ✓ 外观美观
- ✓ 绝缘防漏

Typical Label Construction

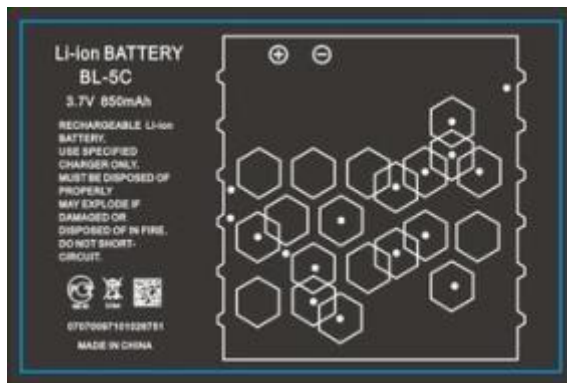
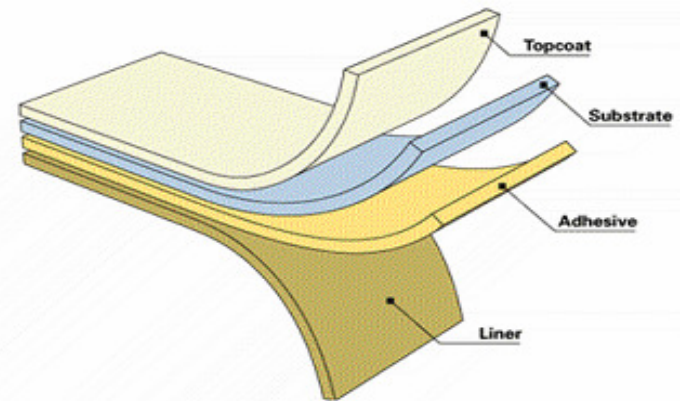
典型的标签结构

Topcoat 涂层

Substrate 基材

Adhesive 胶水

Liner 底纸



常见面材

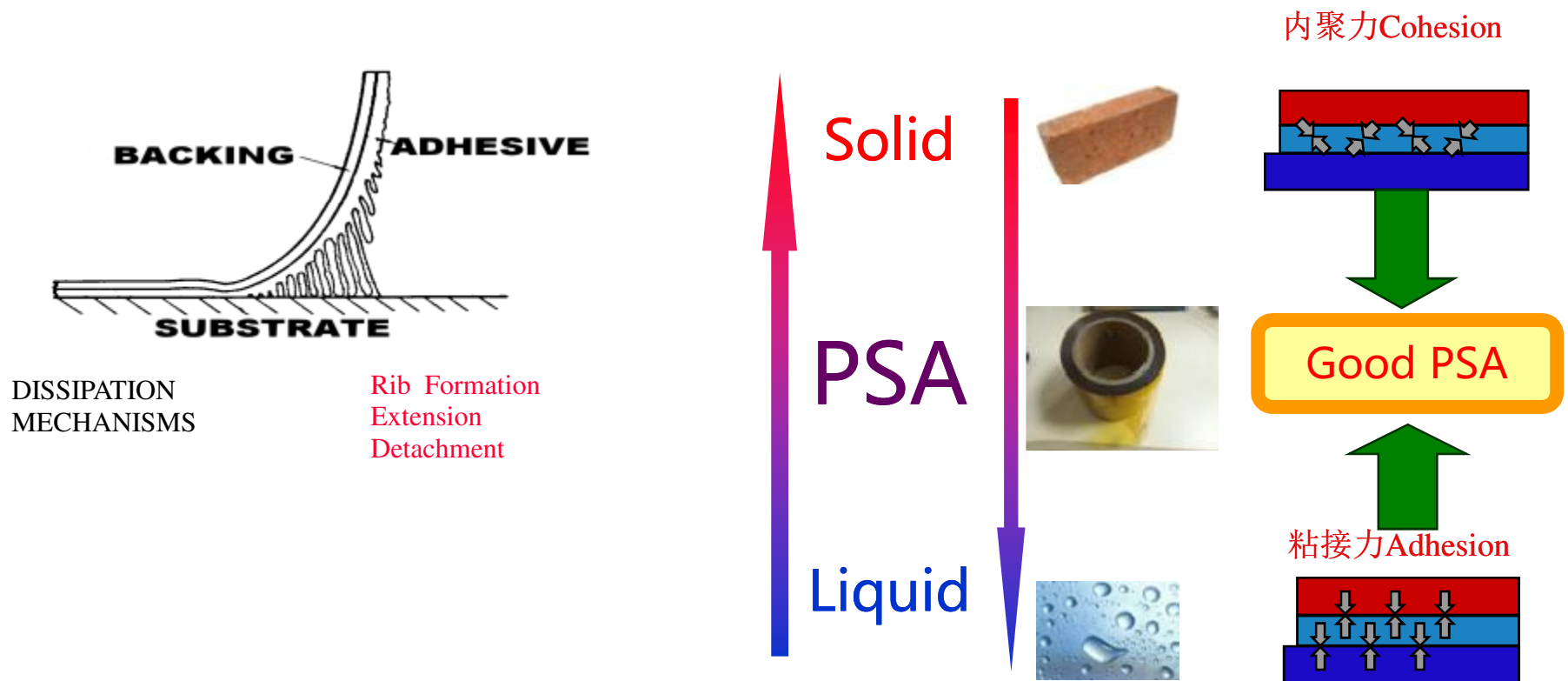
	BOPP	PET	PI
成本	低	较高	高
贴服性	好	好	很好
耐磨性	差	好	好
耐热性	一般	好	很好
耐撕性	一般	好	好
阻燃性	不阻燃	VTM-0&2/NA	VTM-0

- Note: 1. 相同材料厚度越低，起翘风险越小；
2. 面材的颜色除了常见的颜色外，还有亚黑亚灰等涂层颜色。

压敏胶介绍

Pressure Sensitive Adhesive 压敏胶粘剂

- 对压力敏感，施加一定压力就能润湿被粘物体表面并与之形成粘结-粘接力。
- 具有一定的自身强度-内聚力。



常见底纸

	格拉辛	涂塑压纹底纸	PET
成本	低	较高	较高
厚度均匀性	一般	一般	很好
排气性	差	好	差
透明性	差	差	很好
模切性	好	好	很好
成品平整性	一般	一般	很好

Note: 1. 底纸的黏性可根据客户要求选择;



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Battery Wrapping application



电池包裹应用

- Recent Design Trend

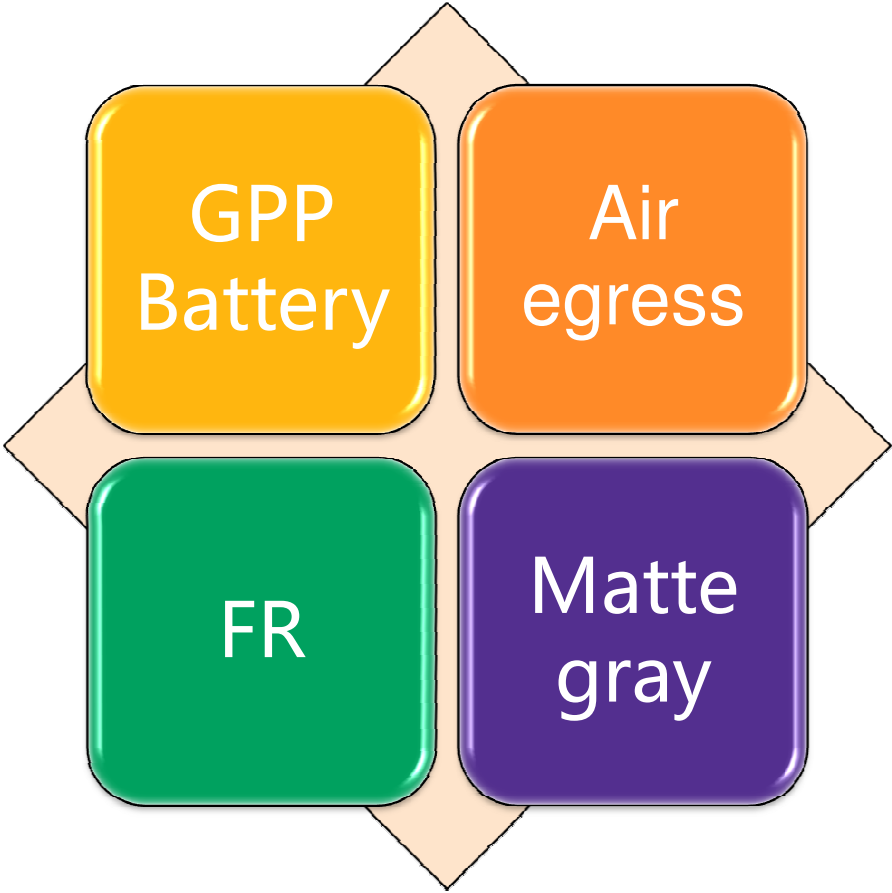
- Larger area / battery 大面积电池
- Thinner phones 总厚度薄
- Total FR label 防火要求
- High Printing performance 高印刷性能
- Bubble Free requirement 排气泡要求
- Customized requirement 客户化要求



- Application Requirements

- High Adhesion on various plastic surface 粘性
- Die cutting properties & workability 模切性
- Reposition ability 可重工性
- Excellent Reliability 可靠性好

Avery Dennison Wrapping portfolio

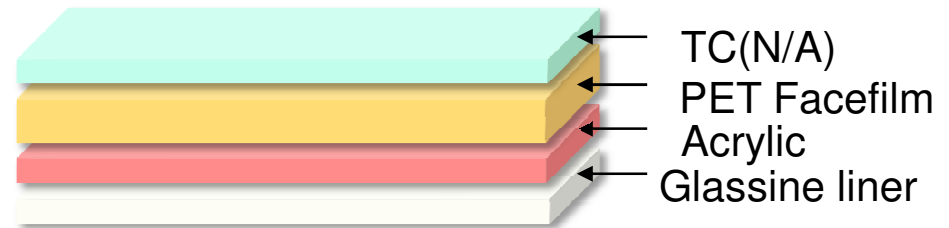


EC battery



EV battery

GPP wrapping label



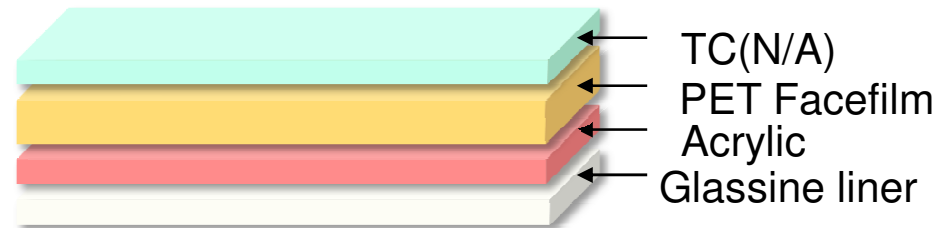
Performance

- General UV ad TT printing .
- Different thickness (25,36,50u) and color(black/yellow) for different application.
- General purpose adhesive with good adhesion, anti-edge lifting and short term reposition performance.
- Glassine liner with good die-cutting performance and plate.

GPP wrapping label list

MZ0372	36u白色PET TC/DS015/80g白格拉辛 无背印
MZ0374	50u白色PET TC/DS015/80g白格拉辛无背印

Air egress wrapping label



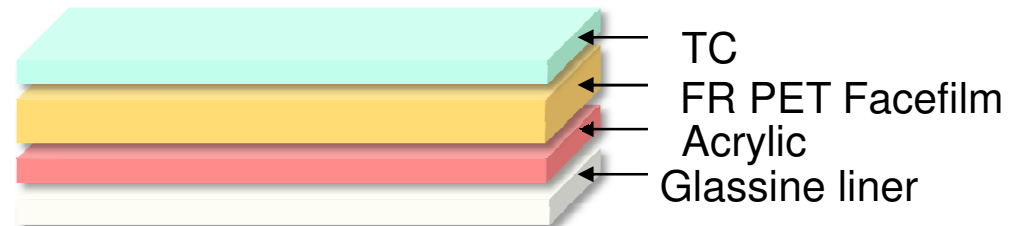
Performance

- General UV ad TT printing.
- Bubble-free solution in lamination and application.
- Meets the demands of indoor and outdoor conditions to enhance label reliability.

Air egress wrapping label list

VTM-0	MZS824	50u黑色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-0	MZS780	36u黑色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-0	MZS781	36u白色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-2	MZS766	50u白色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-2	MZS759	50u黑色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-2	MZS829	36u白色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-2	MZS817	25u白色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印
VTM-2	MZS832	25u黑色防火PET TCY/S8040E/压纹涂塑白格拉辛 无背印

FR PET label



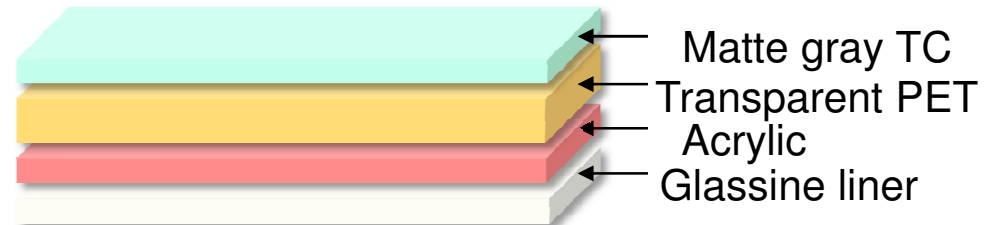
Performance

- Different thickness and color(black/white) for different application.
- Face stock with good flame retardant: VTM-0&2;

FR PET label list

VTM-0	MZ0363	50u白色防火PET TC/S8025/80g白格拉辛 无背印
	MZ0366	36u白色防火PET TCY/S8025/80g 白格拉辛 无背印
VTM-2	MZS760	50u 黑色防火PET TCY/DS015/80g 白格拉辛 无背印
	MZS826	36u黑色防火PET TCY/S8025/80克白格拉辛 无背印
	MZS827	36u白色防火PET TCY/S8025/80克白格拉辛 无背印

Matte gray label



Performance

- Good UV and TT printing performance
- Matte gray color meet NFC requirement
- Non-conductive and cost competition

MZ1054H	36u透明PET matte gray TC/S8025/80g白格拉辛 无背印
MZS825	36u透明PET matte gray TC/DS015E/压纹格拉辛底纸无背印

Blue tape for EV battery



“Blue tape” is particular designed for EV battery cell pack application.

Performance

- Flexible face stock design.
- High adhesive provide good anti edge lifting performance
- Good insulation performance.



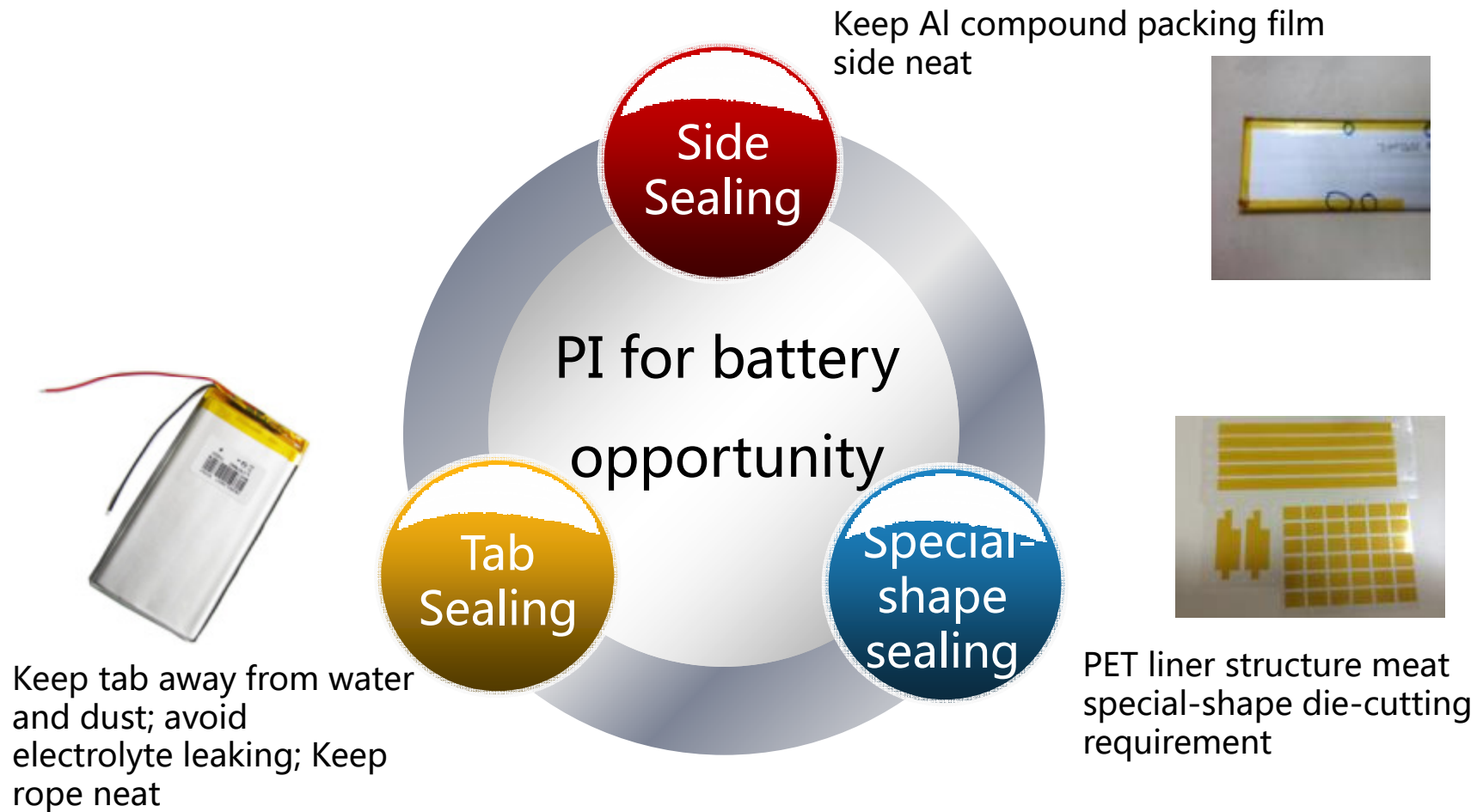
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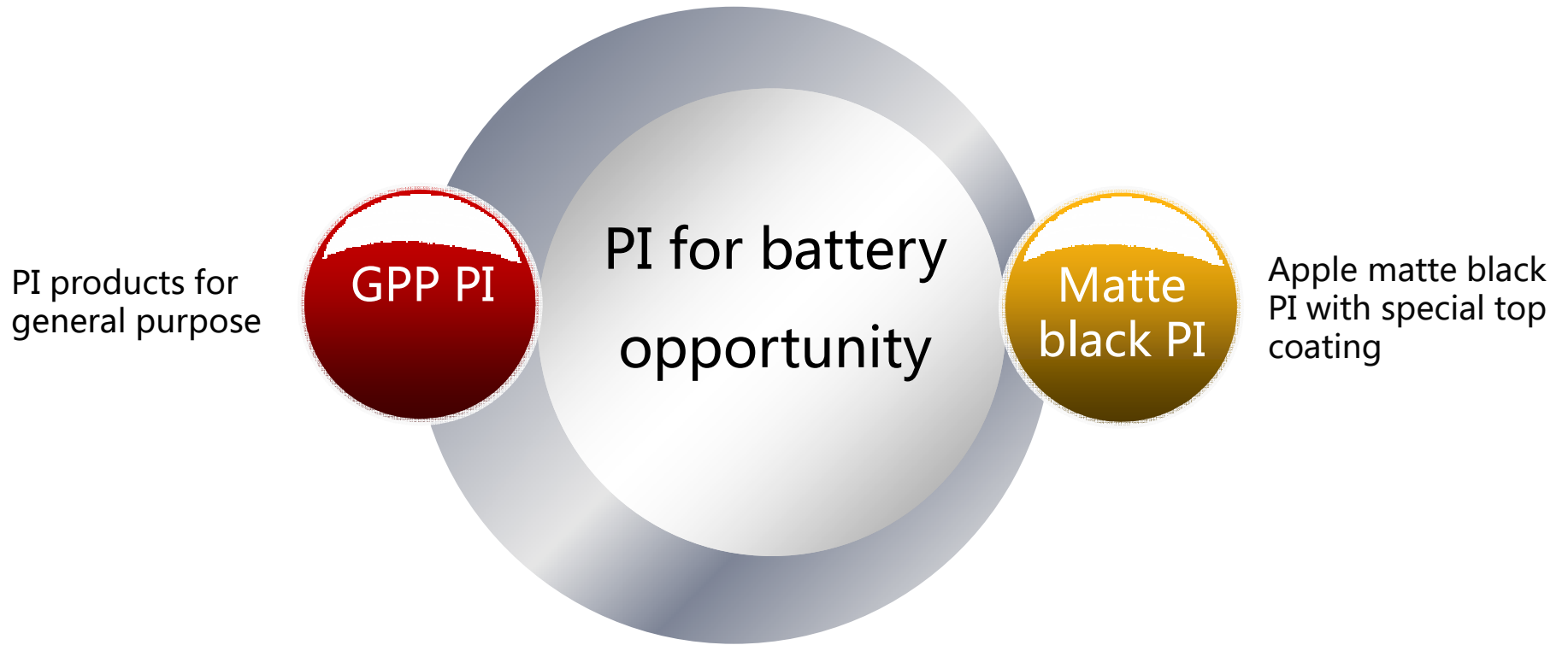
Battery Sealing application



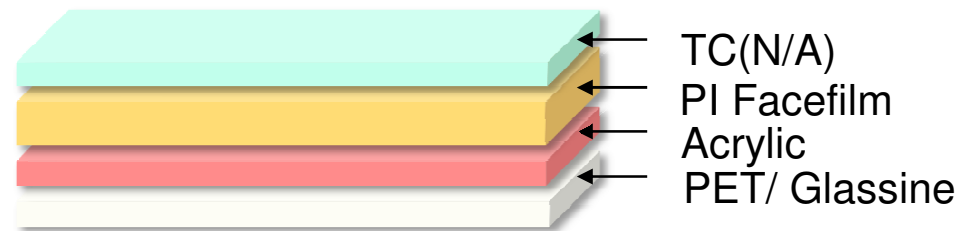
Application classification



Avery Dennison PI portfolio classification :



GPP PI



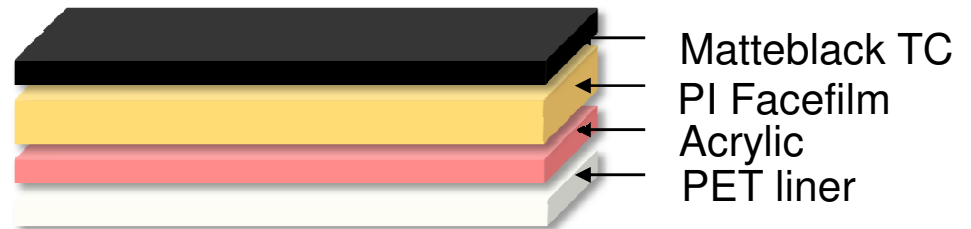
Performance

- General UV ad TT printing(TC available) .
- Different thickness and color(black/yellow) for different application.
- General purpose adhesive with good adhesion, anti-edge lifting and short term reposition performance.
- PET and glassine liner with good die-cutting performance.

GPP PI

Type	Product Code	Description
GPP sealing label	MZS815	25u yellow PI /DS017HP / 75u PET
	MZS739	12.5u yellow PI /DS017 / 50u PET

Matte black PI



Performance

- General UV ad TT printing.
- Special matte black Apple requirement.
- General purpose adhesive with good adhesion.
- PET liner with good die-cutting performance.

Matte black PI

Type	Product Code	Description
Apple's gloss	MZS1040	20u matte black PI /DS128/ 50u PET(Total 40u)
	MZS1049	25u matte black PI /DS128/ 50u PET(Total 50u)



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