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YOUR CUSTOM PRINTING & PACKAGING PARTNER FOR SMALL AND MEDIUM BUSINESSES



1. **PP (Polypropylene) vs. rPET (Recycled PET):**

Details

1. **Material Properties:**

- PP (Polypropylene):** Known for its strength, durability, and resistance to moisture and chemicals. It is commonly used in food packaging, automotive parts, and industrial applications.
- rPET (Recycled PET):** Made from recycled PET bottles and containers. It is a sustainable alternative to virgin PET, used primarily in food and beverage packaging.

2. **Environmental Impact:**

- PP:** While PP is durable, it is not biodegradable. Its production involves fossil fuels, and it can contribute to plastic pollution if not properly recycled.
- rPET:** The production of rPET significantly reduces the need for virgin PET, saving energy and reducing greenhouse gas emissions. However, the recycling process itself still requires energy and resources.

3. **Cost and Availability:**

- PP:** Generally more expensive than rPET due to its production process and the need for specialized recycling facilities.
- rPET:** The cost of rPET has been decreasing as recycling technology improves and demand increases. However, it remains more expensive than virgin PET.

4. **Recycling and End-of-Life:**

- PP:** Currently, PP is not widely recycled in most regions. It often ends up in landfills or incinerated.
- rPET:** rPET is designed to be recycled again, creating a closed-loop system. However, the recycling infrastructure for rPET is still developing in many areas.

Conclusion

- **PP (Polypropylene):** Known for its strength, durability, and resistance to moisture and chemicals. It is commonly used in food packaging, automotive parts, and industrial applications.
- **rPET (Recycled PET):** Made from recycled PET bottles and containers. It is a sustainable alternative to virgin PET, used primarily in food and beverage packaging.
- **Environmental Impact:** The production of rPET significantly reduces the need for virgin PET, saving energy and reducing greenhouse gas emissions. However, the recycling process itself still requires energy and resources.
- **Cost and Availability:** The cost of rPET has been decreasing as recycling technology improves and demand increases. However, it remains more expensive than virgin PET.
- **Recycling and End-of-Life:** rPET is designed to be recycled again, creating a closed-loop system. However, the recycling infrastructure for rPET is still developing in many areas.
- **Conclusion:** While both materials have their pros and cons, rPET is generally considered a more sustainable choice due to its recycled nature and potential for a closed-loop recycling system.

2. **PP (Polypropylene) vs. rPET (Recycled PET):**

1. **Material Properties:**

- PP (Polypropylene):** Known for its strength, durability, and resistance to moisture and chemicals. It is commonly used in food packaging, automotive parts, and industrial applications.
- rPET (Recycled PET):** Made from recycled PET bottles and containers. It is a sustainable alternative to virgin PET, used primarily in food and beverage packaging.

1. 100% Cotton



1. 100% Cotton (100% Cotton)

100% cotton fabric is a popular choice for many applications. It is known for its softness, breathability, and durability. The weight of the fabric is typically 4-6 oz, and the density is 136-203 g/m². The fabric is available in a variety of colors and textures, including plain, woven, and knitted. The fabric is also available in a variety of finishes, including matte, glossy, and textured. The fabric is suitable for a wide range of applications, including clothing, home textiles, and industrial uses.

2. 100% Polyester

100% polyester fabric is a popular choice for many applications. It is known for its strength, durability, and resistance to wrinkles and shrinkage. The weight of the fabric is typically 10-12 oz, and the density is 339-407 g/m². The fabric is available in a variety of colors and textures, including plain, woven, and knitted. The fabric is also available in a variety of finishes, including matte, glossy, and textured. The fabric is suitable for a wide range of applications, including clothing, home textiles, and industrial uses.

100% polyester fabric is a popular choice for many applications. It is known for its strength, durability, and resistance to wrinkles and shrinkage. The weight of the fabric is typically 10-12 oz, and the density is 339-407 g/m². The fabric is available in a variety of colors and textures, including plain, woven, and knitted. The fabric is also available in a variety of finishes, including matte, glossy, and textured. The fabric is suitable for a wide range of applications, including clothing, home textiles, and industrial uses.

3. 100% Linen

100% linen fabric is a popular choice for many applications. It is known for its strength, durability, and resistance to wrinkles and shrinkage. The weight of the fabric is typically 10-12 oz, and the density is 339-407 g/m². The fabric is available in a variety of colors and textures, including plain, woven, and knitted. The fabric is also available in a variety of finishes, including matte, glossy, and textured. The fabric is suitable for a wide range of applications, including clothing, home textiles, and industrial uses.

Textile Exchange 9.7 2025, 97% rPET virgin (chain-of-custody) “

210D, 600D, rPET

oz, gsm

33.9 PP gsm (D) 9,000

420D 600D 110-180 gsm 210D 280-360 gsm 600D gsm



[illegible]

Textile Fiber Products Identification Act [16 CFR 303.45^{\[7\]}](#)

2019 年 1 月 1 日開始實施。根據 FTC Care Labeling Rule^[8]，包裝商必須在包裝上提供清晰的護理說明，包括“不可漂白”、“不可熨燙”等。此外，包裝商還應提供有關包裝材料的回收信息，包括 CalRecycle^[9] 和 Packaging Dive^[10] 的相關規定。

根據 2026 年 1 月 1 日開始實施的 CalRecycle^[9]，包裝商必須在包裝上提供清晰的回收信息，包括 \$0.10 的回收費。此外，包裝商還應提供有關包裝材料的回收信息，包括 Packaging Dive^[10] 的相關規定。

包裝材料回收率

根據 2014 年 2022 年 47% 的回收率，包裝商必須在包裝上提供清晰的回收信息，包括 \$0.10 的回收費。此外，包裝商還應提供有關包裝材料的回收信息，包括 Packaging Dive^[10] 的相關規定。

包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料
包裝材料	4-6 oz/yd ² (≈136-203 g/m ²)	包裝材料, DTG	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料
包裝材料	10-12 oz/yd ² (≈339-407 g/m ²)	包裝材料, 包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料
包裝材料	包裝材料 PP	包裝材料 1-2	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料
PP 包裝材料	~80 gsm	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料 #5;
PP 包裝材料	包裝 PP +	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料;
包裝材料	包裝材料 (包裝材料)	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料	包裝材料;

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rPET

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