



Resources and Technology Integrator of Recycled Polyester Industry

Solution *for PET Bottle Recycling*

www.bo-re-tech.com



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PET Bottle Consumption & Collection Rate

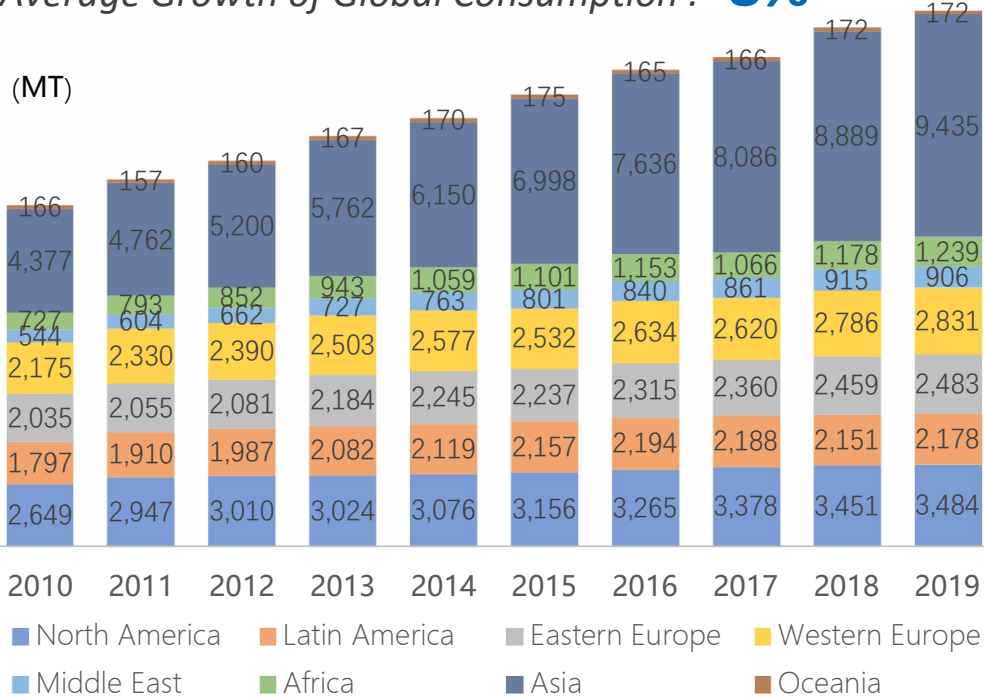
FOR PET BOTTLE RECYCLING



PET BOTTLE CONSUMPTION

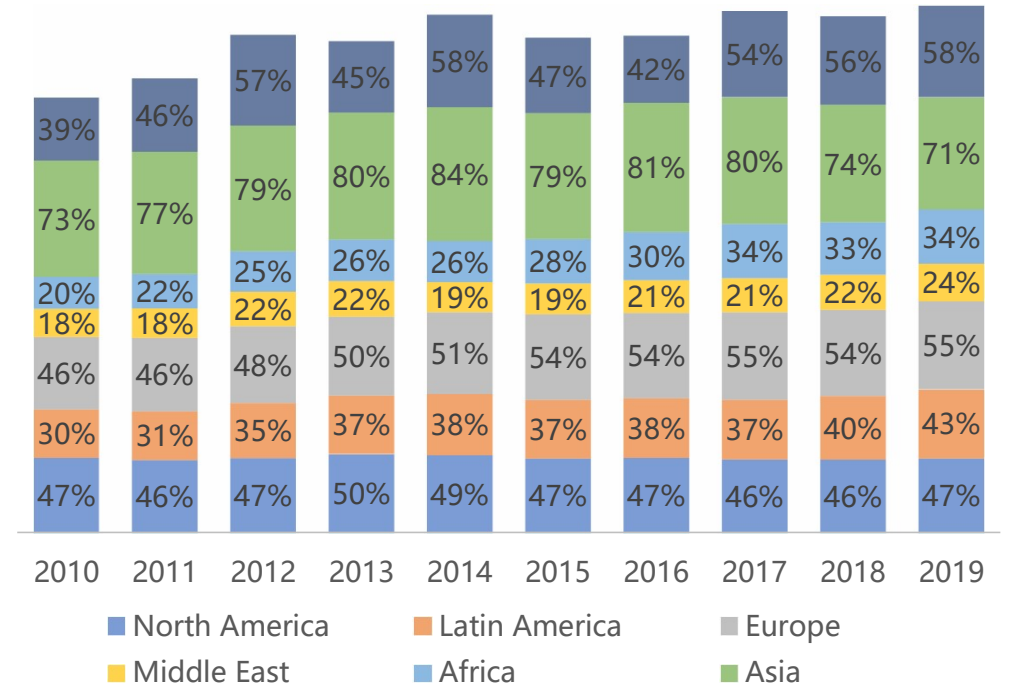
Average Growth of Global Consumption : **8%**

(MT)



PET BOTTLE COLLECTION RATE

Average Global Recycling Rate: **50%**

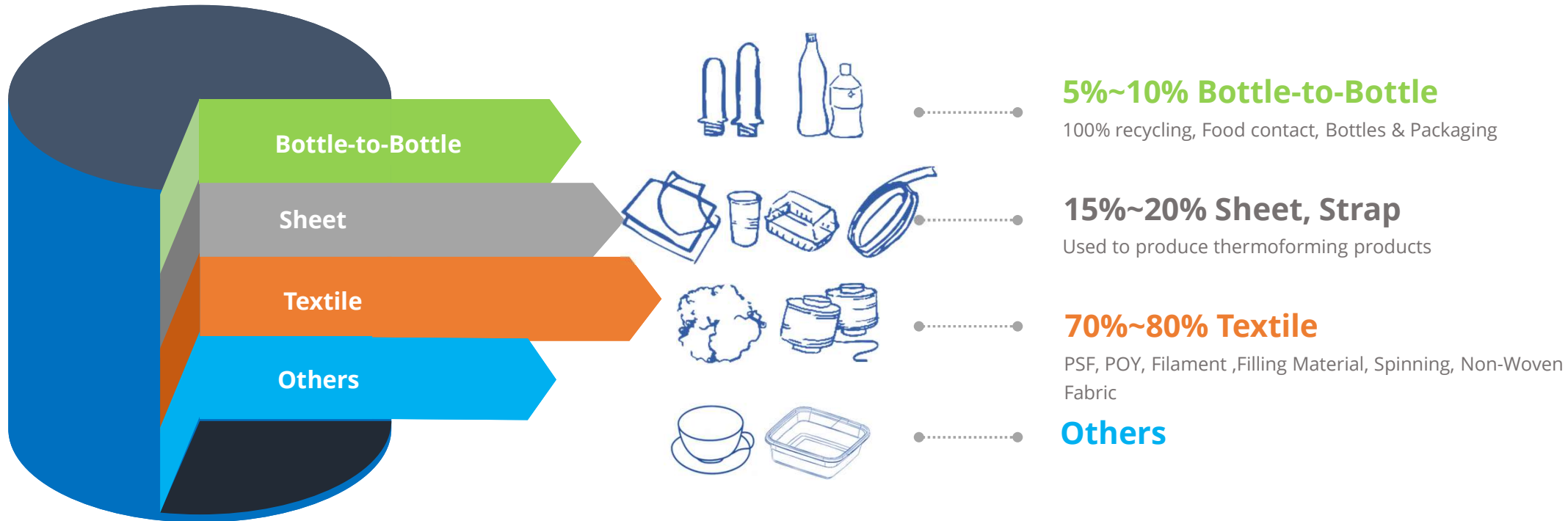


Source: Wood Mackenzie Chemicals



RPET Used by Product Category Globally

FOR PET BOTTLE RECYCLING



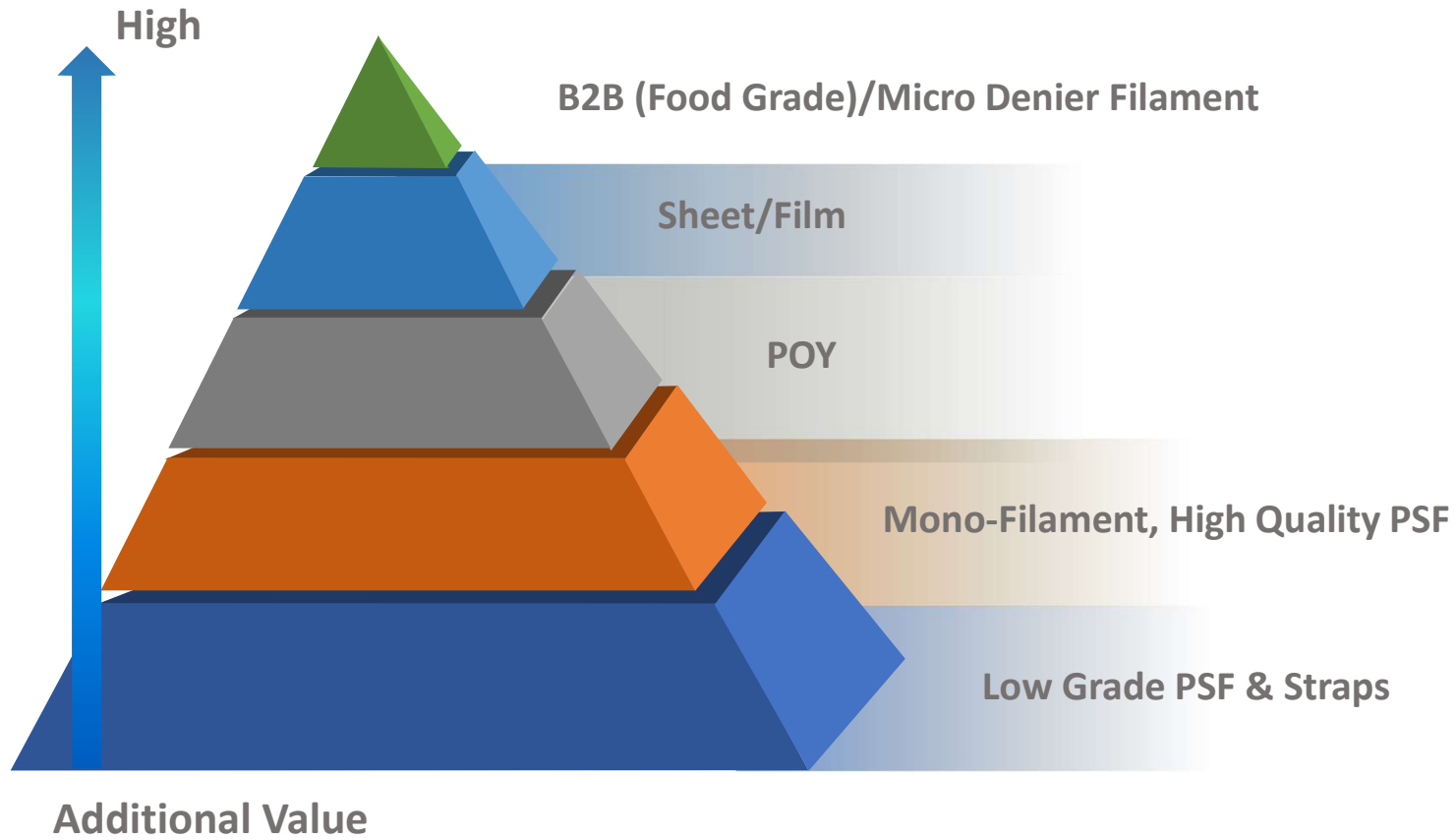


RPET Flakes Quality Standard

FOR PET BOTTLE RECYCLING



RPET Quality Standard



PVC	Total Impurities
< 15	< 80
< 30	< 100
< 100	< 150
< 150	< 200
300~200	500~400



Contaminants in PET Bottle Bales

FOR PET BOTTLE RECYCLING



Caps, Rings



Label (PVC ,OPS,BOPP, Paper)



Color Bottles



Bottle Bale



Post-consumer PET Bottles



Residual Beverage



Multi-Layer Bottles



Mud, Sand, Metal



PET Bottle Bales Description

FOR PET BOTTLE RECYCLING



China, Taiwan & Southeast Asia



- Some bottles Pre-sorted by manual
- > 50% PVC Label
- Some PVC Bottles



PET Bottle Bales Description

FOR PET BOTTLE RECYCLING



Japan



- Clean Bottles
- PVC Free
- Bo-PET or OPS Label
- Multi-Layer Bottles



PET Bottle Bales Description

FOR PET BOTTLE RECYCLING



India, Pakistan & Bangladesh



- Color Pre-sorted by manual
- 30% PVC labels
- Non-regular PET Contaminants

- Heavy Mud
- Unforeseen Contaminants
- Aluminum Caps and Rings
- Recycled Material



PET Bottle Bales Description

FOR PET BOTTLE RECYCLING



Saudi, Iran & Middle East



- > 35% Light Blue bottles
- BOPP Label Mostly
- 10% PVC

- Less Non-PET
- Heavy Dust and Mud



PET Bottle Bales Description

FOR PET BOTTLE RECYCLING



Europe & USA



- Mixed Color Bottles
- Rare PVC Label
- PVC Bottles
- Multi-Layer Bottles

- High Contaminants and unforeseen
- Low Recovery Ratio
- Quality affected by sorting center



PET Bottle Bales Description

FOR PET BOTTLE RECYCLING



Latin America



- Mix color bottles
- Rare PVC Label
- PVC Bottles
- Large Bale, High Density



PET Bottle Recycling Process Section Introduction

FOR PET BOTTLE RECYCLING



The Only PET Bottle Washing Line
for Food Grade Bottle-to-Bottle Project in Asia

