

# APET / RPET

## Amorphous and Recycled PET Sheet

Amorphous PET (APET) and recycled-content PET (RPET) deliver clarity, recyclability, and cost-effective thermoforming. RPET grades support sustainability targets without sacrificing print or forming performance.

### Applications

- Thermoformed packaging: trays, clamshells, and produce containers
- Retail packaging and clear lids
- Blister packs and visual merchandise packaging
- Boxes and folding cartons (printed)
- POP and signage
- Sustainability-driven packaging programs (RPET grades)

### Features & Benefits

Exceptional clarity and gloss transparency — high-end packaging look at commodity cost.

Easy processing for thermoformers — wide forming window, predictable behavior.

Environmentally friendly alternative to traditional plastics; RPET grades incorporate post-consumer recycled content.

Available in roll stock or sheet form.

Multiple grades qualified for thermoforming and printing industries.

Good slipping characteristics for high-speed converting and packaging lines.

### Print & Process Compatibility

Toner ✓ · HP Indigo ✓ · UV Inkjet ✓ · Solvent Inkjet ✓ · Screen ✓ · Offset ✓

## AVAILABLE SURFACES, FINISHES & GAUGES

Surface / Finish	Description	Stock Gauges
<b>Gloss / Gloss</b>	Near-perfect visibility with high scratch resistance.	.010, .012, .014
<b>Heavier Gauge APET</b>	For thermoforming applications — clamshells, trays, clear packaging.	Up to .080 (custom)
<b>RPET Grades</b>	Recycled-content PET available with verified post-consumer content.	Specify on order

## TYPICAL PROPERTIES

Property	Typical Value	Test Method
<b>Physical</b>		
Specific Gravity	1.34 ± 0.01	ASTM D 792
Thickness Tolerance (≤7.0 ga)	± 7 %	ASTM D 1593
Thickness Tolerance (7.1 – 10 ga)	± 5 %	ASTM D 1593
Thickness Tolerance (>10 ga)	± 3 %	ASTM D 1593
IV Value	0.67 – 0.73	ASTM D 4603
Static Friction Coefficient	0.20 – 0.35	ASTM D 1894
<b>Optical</b>		

Property	Typical Value	Test Method
Transparency	≥ 85 %	ASTM D 1003
Gloss Value (60°)	≥ 150	ASTM D 523
Haze Value	≤ 5.0 %	ASTM D 1003
Black Point (Gels) ≤10 ga	Insignificant per m <sup>2</sup>	—
Black Point (Gels) 10–40 ga	≤ 1 point per m <sup>2</sup>	—
Black Point (Gels) >40 ga	0 points per m <sup>2</sup>	—
<b>Mechanical</b>		
Tensile Strength	8,500 psi	ASTM D 638
Tensile Elongation	200 %	ASTM D 638
<b>Thermal</b>		
Heat Shrinkage (100°C × 5 min)	-2 / -8 %	ASTM D 1204
<b>Surface / Tolerances</b>		
Dyne Level	Side R1/R2: ≥ 40	ASTM D 2578
Roll Stock Tolerance	± 1/16 in.	—
Cross Stock Tolerance	± 1/16 in.	—

*Properties reported here are typical of average lots. K&R Plastics, Inc. and its manufacturers make no representation or warranty that the material in any particular shipment will conform exactly to the values given. Unless otherwise noted, all tests run at 23°C (73°F) and 50% relative humidity. Job-specific qualification recommended for production runs — request a sample.*