

APET Sheet Solution

KEY CHARACTERISTICS

APET Sheet is a rigid co-polyester material designed for the visual merchandising, retail display and graphic arts markets, and rigid thermoformed packaging applications. APET offers excellent printability, toughness, ease of fabrication and strong chemical resistance. Available as lenticular sheet for motion-blur and 3D-effect imaging.

PROCESSING

APET Sheet can be thermoformed in standard thermoforming ovens. Sheet material can be formed over wood, composite and aluminum cooled tooling. Care must be taken in forming to heat the sheet evenly and not to overheat sheet. Temperatures of approximately 270 F - 310 F are recommended for proper forming. As with any thermoplastic material, care should be taken to account for the coefficient of thermal expansion when considering part fit and tooling design parameters.

AVAILABILITY

APET Sheet is a custom extruded sheet solution. Available in sheet or rollstock

Available Textures: Smooth, Matte and Lenticular

Standard Colors: Clear

Lengths: 19"–96"

Web Width: 45" maximum

Core Size: 3", 6", 8", or 12"

Roll Diameter: 18"–42"

Yield Factor: 20.79 cu. in./lb.

Masking: 2 mil moderate tack static and 2 mil high tack adhesive masking available (one side)

Sheet Size: maximum width is 64" depending on gauge. Prismatic and Matte texture maximum width is 60"

Gauges: 0.010"–0.040"

Minimum Order: 5,000 lbs.

PROPERTY	TEST METHOD	UNITS	DATA
Specific gravity	D-792		1.33
Heat deflection temperature	D-648 @0.455 MPa	°F	156
	@1.82 MPa	°F	149
Vicat softening temperature	D-1525	°F	176
Refractive index			1.57
Haze @ 250 microns (10 mil)	D-1003	%	0.8
Flammability	UL 94 HB		Passes

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