

Product Data Sheet

Regal Graphic's Tempet II is a custom extruded film or sheet made from an amorphous copolyester that combines excellent clarity and toughness with outstanding heat and chemical resistance. Applications include thermoformed parts, graphic overlays and face shields. Tempet II does not contain Bisphenol (BPA). It is both FDA and USDA approved for use in medical, pharmaceutical, and food packing applications. Tempet II may also be extruded with UVI additives or cap layers giving it customizable UV protection. Tempet II is available in a variety of textures as well as polished, with thicknesses ranging from 0.007 to .055 Mil.

Key Attributes of Tempet II

GENERAL PROPERTIES

Property	Value	Test Method
Thickness of Film Tested	0.254 mm (0.010 in.)	D 374
Density	1.19 gm/cc	ASTM D 1505
Base Weight at .010"	.43 lbs/1000in ²	N/A
Yield at .010"	2,326 in ² /lb	N/A
Water Vapor Transmission Rate at 23°C (73°F)	0.2 g/100in. ² ·24h	ASTM F 1249
Water Absorption, 24 hours	0.5%	ASTM D 570
Gas Permeability, CO ₂	149 cm ³ ·mm/m ² ·24h·atm (379 cm ³ ·mil/100in. ² ·24h·atm)	ASTM D 1434
Gas Permeability, O ₂	82 cm ³ ·mil/100in. ² ·24h·atm	ASTM D 3985
Tensile Modulus M.D. T.D.	5908 PSI 5782 PSI	ASTM D 882
Dart Impact at 23°C (73°F) at -30°C (-22°F)	882 g (1.94 lb) 913 g (2.01 lb)	ASTM 1709A
Taber Abrasion (average at 25 cycles)	23% haze	ASTM 1044

- Does not contain Bisphenol-A (BPA)
- Does not contain plasticizers
- Excellent clarity
- Good heat resistance
- No pre-drying of film prior to thermoforming
- Outstanding chemical resistance
- Tremendous toughness
- Wide thermoforming window

Product Data Sheet

OPTICAL PROPERTIES

Property	Value	Test Method
Refractive Index	1.55	ASTM D 542
Yellowness Index	0.5	ASTM D 1925
UV % Transmission at 380 nm	89%	UV/Vis Spectro
Haze	0.7%	ASTM D 1003
Gloss at 60°	161	ASTM D 2457
Light Transmission (Total Transmittance)	92%	ASTM D 1003

*The information and recommendations in this publication are believed to be accurate and are offered in good faith but do not constitute specifications. Suggestions concerning uses and applications are only the opinion of Regal Graphics and users should carry out their own testing procedures to confirm suitability for their purposes. Those data are lab test results, not guaranteed.