



Prime PETG 14471 is an economical high-clarity PETG co-polyester resin developed for thick sheet applications. The benefits of this material are excellent clarity, outstanding toughness, chemical resistance, cold formable without stress whitening, machinable, excellent thermoforming characteristics and it can be sealed with adhesives.



## Prime PETG 14471

Prime PETG 14471	Very High	High	Avg.
Impact Strength			*
Low Temperature Impact Strength			*
Tensile Strength		*	
Flexural Modulus	*		
Heat Deflection Temperature			*

### Applications:

Include point of purchase, displays, store fixtures, indoor and outdoor signs, vending machine parts, and industrial, building, construction, and architectural components.

### Finishing:

Techniques used for the fabricating and finishing of Prime PETG 14471 include; Cold and Hot bending, sawing, drilling, punching, shearing, and die cutting. Saw edges can be mechanically, flame or solvent polished. Prime PETG 14471 can be painted, hot stamped and is easy to bond with commercial products.

Property	Test Method	Value	Unit
Specific Gravity	D-1505	1.27	
Tensile @ Yield	D-638	7,700	psi
Elongation @ Break	D-638	50	%
Flexural Modulus	D-790	310,000	psi
Notched Izod @ 73°F	D-256	1.7	ft-lb/in
Notched Izod @ -22°F	D-256	.7	ft-lb/in
HDT @ 264 psi	D-648	157	°F
Vicat Softening Point	D-1525	181	°F
Rockwell Hardness	D-785	104	R Scale
CLTE	D-696	4x10 <sup>-5</sup>	in/in/°F
Haze	D-1003	<1	%

Complies with UL 94-HB @ thickness > .010 in.

Complies with UL 94-V2 @ thickness >.118 in.

Complies with FDA Regulation 21 CFR 177.1315

### Processing:

Forming conditions for Prime PETG 14471 are as follows; Oven temperatures should be 400-500°F, forming temperature of sheet should be 300-330°F, mold temperature should be < 120°F, de-mold the part at < 130°F. The mold should have a 3-5°draft angle to aid with the release of the part.

### Colors, Textures and Capabilities:

Prime PETG 14471 can be color matched to meet your specific requirements, however, it is generally a clear product. It is available in thicknesses of .060 - .236 and up to 56" in width.

Please contact your Piedmont Plastics representative for more information on finishing, fabricating, or the thermoforming process.

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