

HTP 800

(Clear CPVC)

HTP 800 is a clear CPVC based material for use as windows and doors in cleanroom equipment. Notable properties include light transmission, chemical resistance, and flame resistance.

The following physical property information is based on typical values of a CPVC based HTP 800 resin.

	Units	ASTM Test	Result
Mechanical			
Tensile Strength @yield	psi	D638	8,711
Tensile Elongation @break	%	D638	45
Tensile Modulus	psi	D638	—
Flexural Modulus	psi	D790	435,550
Flexural Strength	psi	D790	14,050
Izod Impact Strength-Notched	ft•lbs/in	D256	1.4
Hardness - Rockwell	—	D785	R124
Continuous Use Temperature	°F	—	195
Heat Deflection Temp. @264 psi	°F	D648	170
Melt Temperature	°F	D4591	—
Flammability			
Rating-UL94	—	—	V-0
Limiting Oxygen Index	%	D2863	54
Electrical			
Dielectric Strength @1mil	V/mil	D149	279
Dielectric Constant @1kHz	—	D150	—
Other			
Specific Gravity	—	D792	—
Water Absorption @24 hours	%	D570	0.016
Chemical - data as indicated shows the change of weight by subject dipping test.			
Distilled water	mg/cm ²	5 hr. immersion @60°C	0.05
30% sulfuric acid solution	mg/cm ²	5 hr. immersion @60°C	0.00
35% hydrochloric acid solution	mg/cm ²	5 hr. immersion @60°C	0.01
40% nitric acid solution	mg/cm ²	5 hr. immersion @60°C	0.02
10% sodium chloride solution	mg/cm ²	5 hr. immersion @60°C	0.04
40% sodium hydroxide solution	mg/cm ²	5 hr. immersion @60°C	0.05

*Note: no change in appearance is observed in the above dipping test.

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Westlake Product Bulletin



Applications Include:

- Clean room access panels
- Site windows
- Clean room partitions
- Tank covers
- Fluid handling
- Semiconductor equipment
- Fire safe componentry

Advantages of HTP 800:

- Excellent clarity and 69% light transmittance - no haze
- Chemical resistance
- Stiffness
- Contains no lead (Pb), heavy metals, or any EPA SARA 313 reportable ingredients
- Most cost effective FM 4910 clear plastic on the market
- UL V-0, FM 4910 listed
JI#3006348

Manufacturing Capabilities:

Sheet: 3mm to 25mm thick with 6mm as standard in 48" x 96" sheets

Color/Grades:

Optically clear - light blue or low grey tinted

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