



Clariflex™ (VF2/HFP/TFE terpolymer)

Clariflex is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride. Westlake manufactures Clariflex in compression molded and extruded sheet, rod and film. Notable properties include light transmission, chemical resistance and flame resistance. The following physical property information is based on typical values of the base resin.

Applications Include:

- Chemical resistant window material
- Glove boxes
- Semiconductor equipment components
- Low permeation films and sheet
- Flame resistant substitute for polycarbonate

Advantages of Clariflex:

- High purity
- 95% light transmission
- Exceptional flame resistance
- Flexibility
- Low permeability
- FDA compliant

Manufacturing Capabilities:

- Sheet:** (Comp. Molded):
1 /8" to 1" thick
- Welding Rod:**
1 /8" and 5 /32" diameter
- Film:** .010" to .029" thick

Colors/Grades:

Clear (custom colors not available)

*In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

	Units	ASTM Test	Result
Mechanical			
Flexural Modulus	psi	D790	30,000
Flexural Strength @yield	psi	D790	3,500
Hardness-Shore D	—	D2240	D54
Izod Impact Strength–Notched	ft•lbs/in	D256	No Break
Tensile Elongation @break	%	D638	500
Tensile Modulus	psi	D638	32,200
Thermal			
Continuous Use Temperature	°F	—	300
Flammability Rating–UL94	—	—	V-0
Heat Deflection Temperature			
@66 psi	°F	D648	1.0
@264 psi	°F	D648	91.0
Limiting Oxygen Index	%	D2863	75
Melt Temperature	°F	D4591	330
Electrical			
Dielectric Constant @1kHz	—	D150	6.3
Dielectric Strength @10mil	V/mil	D149	1,210
Other			
Specific Gravity	—	D792	1.98
Water Absorption @24 hours	%	D570	0.04
Refractive Index	—	D542	1.355
Visible Light Transmission	%	—	95
Glass Transition Temperature @1kHz	°F	—	79

*physical properties derived using 10 mil film specimens

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