

Clariflex™

(VF2/HFP/TFE terpolymer)

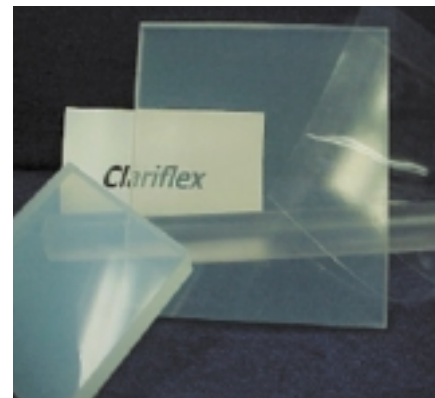
Clariflex is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride. Westlake manufactures Clariflex in compression molded and extruded sheet, rod and film. Notable properties include light transmission, chemical resistance and flame resistance.

The following physical property information is based on typical values of the base resin.

| | 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 | 91.0 |
| @264 psi | °F | D648 | 82.0 |
| 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

Westlake Product Bulletin



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

WESTLAKE PLASTICS COMPANY

World Headquarters
P.O. Box 127, Lenni, PA 19052
1-800-999-1700 • Fax: (610) 459-1084

www.westlakeplastics.com

West Coast Office
377 E. Chapman Ave., Suite 120, Placentia, CA 92870
1-800-440-0597 • Fax: (714) 961-0978

CR-001 8/01

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to infringe

any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential loss) shall be available to the buyer.

EXCLUSION OF WARRANTIES: THERE ARE NO WARRANTIES AS TO THE MATERIAL DESCRIBED HEREIN, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY VALUES STATED IN SELLER'S LITERATURE ARE TYPICAL PROPERTIES ONLY.

Clariflex™ is a Trademark of Westlake Plastics