

Westlake Plastics Clariflex® TFE/VF2/HFP

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

Clariflex is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoro-propylene, and vinylidene fluoride. Notable properties include light transmission, chemical resistance and flame resistance. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Clariflex-TFEVF2HFP.php

Physical Properties	Metric	English	Comments
Density	1.98 g/cc	0.0715 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Tensile Modulus	0.222 GPa	32.2 ksi	ASTM D638
Flexural Yield Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	0.207 GPa	30.0 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	146 µm/m-°C	81.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	166 °C	330 °F	ASTM D4591
Maximum Service Temperature, Air	149 °C	300 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	27.8 °C	82.0 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	75 %	75 %	ASTM D2863

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.3 @Frequency 1000 Hz	6.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	10.6 kV/mm	270 kV/in	ASTM D149

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