

Westlake Plastics Tefzel® 2181 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Modified ETFE, Unreinforced

Material Notes:

Products made from Tefzel® HT-2181 resin are suitable for a variety of processes and demanding end uses. They are mechanically tough and offer an excellent balance of properties. These products perform well in applications where other thermoplastics lack mechanical toughness, broad thermal capability, chemical resistance or are limited by fabricated issues. Tefzel® is a trade name of DuPont. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Tefzel-2181-ETFE.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	0.0050 %	0.0050 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.1 MPa	6100 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Tensile Modulus	0.827 GPa	120 ksi	ASTM D638
Flexural Yield Strength	170 MPa	24600 psi	ASTM D790
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	131 µm/m-°C	73.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	266 °C	510 °F	ASTM D4591
Maximum Service Temperature, Air	154 °C	310 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	51.7 °C	125 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	31 %	31 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{2.5} Metric	^{2.5} English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	7.87 kV/mm	200 kV/in	ASTM D149

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China