TYPICAL PROPERTIES OF GLYCOL MODIFIED POLYESTER TEREPHTHALATE (PETG)

ASTM Test	Property	Values
	PHYSICAL	
D792	**Specific gravity** (g/cm^3)	1.27
	MECHANICAL	
D638	**Tensile strength** (psi)	3,800
D638	**Elongation at break** (%)	
	At .120" thickness	54
	At .080" thickness	210
D790	**Flexural strength** (Mpa)	77
D790	**Flexural modulus** (Mpa)	3.12×10^5
D4812	**Unnotched impact** (J/m)	No break
D256	**Notched impact** (J/m)	88
D785	**Hardness**, Rockwell R	106
	THERMAL	
D648	**Deflection temperature** (°F)	
	At 66 psi	158
D1525	**Vicat softening point** (°F)	185
DSC	**Glass transition temperature** (°F)	178
D696	**Coefficient of linear thermal expansion**	
	(mm/mm-°C)	5.1×10^{-5}
UL 94	**Flammability**	
	At .125" thickness	94 V-2
	At .045" thickness	94 HB
D1238	**Oxygen index** (%)	24
	ELECTRICAL	
D149	**Dielectric strength** (kV/mm)	16.1
D150	**Dielectric constant**	
	At 1 kHz	2.6
D150	**Dissipation factor**	
	At 1 kHz	0.005
D257	**Volume resistivity** (ohm-cm)	10^{15}

TYPICAL PROPERTIES OF GLYCOL MODIFIED POLYESTER TEREPHTHALATE (PETG)

ISO Test	Property	Values
	PHYSICAL	
ISO1183	**Specific gravity** (g/cm^3)	1.27
	MECHANICAL	
ISO178	**Tensile strength** (MPa)	26.20
ISO527	**Elongation at break** (%)	
	At 3 mm thickness	54
	At 2 mm thickness	210
ISO178	**Flexural strength** (Mpa)	77
ISO178	**Flexural modulus** (Mpa)	3.12×10^5
ISO180	**Unnotched impact** (J/m)	No break
ISO179	**Notched impact**, Charpy (kJ/m^2)	2.2
ISO2039	**Hardness**, Rockwell R	106
	THERMAL	
ISO75	**Deflection temperature** (°C)	
	At 0.45 MPa	70
ISO306	**Vicat softening point** (°C)	85
DSC	**Glass transition temperature** (°C)	81
ASTM D696	**Coefficient of linear thermal expansion** (mm/mm-°C)	5.1×10^{-5}
UL 94	**Flammability**	
	At 3.1 mm thickness	94 V-2
	At 1.1 mm thickness	94 HB
ISO4589	**Oxygen index** (%)	
	ELECTRICAL	
IEC250	**Dielectric strength** (kV/mm)	16.1
IEC250	**Dielectric constant**	
	At 1 kHz	2.6
IEC250	**Dissipation factor**	
	At 1 kHz	0.005
IEC093	**Volume resistivity** (ohm-cm)	10^{15}