

### TYPICAL PROPERTIES OF GLYCOL MODIFIED POLYESTER TEREPHTHALATE (PETG)

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

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