

Thermoplastic Polyesters

Thermoplastic Polyesters - Polybutylene Terephthalate, Polyethylene Terephthalate, Polythramethylene Terephthalate, Biaxially Oriented Polyesters.

Thermoplastics Polyesters are a family of highly crystalline, high molecular weight polymers that provide excellent impact resistance, toughness, chemical resistance (at ambient temperatures), high creep resistance, low moisture absorption and excellent dimensional stability. There are many grades available including those with enhanced impact resistance, ductility, stiffness and various U. L. flammability ratings. Thermoplastic polyesters are used as housings, components, gears, rollers, bearings, cams, etc. - in a broad range of mechanical, industrial, commercial and appliance applications. Biaxially oriented polyesters, such as Mylar® are formulated to provide improved dimensional (trans / directional) stability, wear life and excellent dielectric properties. Bi-axially oriented polyesters are available only in thin gauge sheets, strips, coils and punched parts.

Tensile Strength at Break - PSA / DAM:	10,000
Dielectric Strength - Volts / Mil:	500
Continuous Service Temperature:	225 F
Elongation % at Break - DAM:	200
Comparative Cost:	Moderate