

PET

Polyethylene terephthalate

PETE, PETP

Mylar® (Polyester Film)



Available in Sheet & Rod

PET Overview

PET is a clear, strong, and lightweight plastic that is widely used for packaging foods and beverages, especially convenience-sized soft drinks, juices and water. It is also popular for packaging foods, cooking oils, mouthwash, shampoo, liquid hand soap, window cleaner, even tennis balls. Special grades of PET are used for carry-home food containers and prepared food trays that can be warmed in the oven or microwave. PET is characterized as having high tensile strength, exceptional dimensional stability coupled with excellent wear resistance, a low coefficient of friction, and resistance to moderately acidic solutions.

PET Applications

The majority of the world's PET production is for synthetic fibers (in excess of 60%), with bottle production accounting for around 30% of global demand.

- Plastic bottles: water, soft drinks, oils, soap, shampoo, mouthwash, cleaners
- Packaging trays: frozen dinners, tennis ball containers, general purpose trays
- PET film (Mylar): thermal insulation, space blankets, magnetic tape, pressure sensitive adhesives

PET Features

- Lightweight
- Great gas and fair moisture barrier
- Strong and impact resistant
- Desirable intrinsic viscosity range
- Approved for use as a food container

PET Specifications

| | |
|----------------------------------|-----------------|
| Friction Coefficient | 0.2 |
| Tensile Strength | 7000 PSI |
| Flexural Strength | 12500 PSI |
| Shear Strength | 9240 PSI |
| Impact Strength, Notched Izod | 0.6 Ft-lbs/Inch |
| Hardness (Rockwell & Burnell) | R112 |
| Deflection Temperature (264 PSI) | 215F |
| Melting Point | 491F |
| Elongation | 20% |

*Specs accurate at 73°F

Mylar polyester film is a registered trademark of DuPont Teijin Films

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 **WARNING:** This product can expose you to chemicals including Antimony trioxide, CAS 1309-64-4, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov



www.interstateplastics.com