

# PET (polyethylene terephthalate, semicrystalline)

## SUSTADUR® PET / TECADUR™ PET



PET (semicrystalline) is a strong, stiff engineering plastic with excellent machining characteristics, chemical resistance, and bearing and wear properties. PET is often used for food processing machinery applications where low moisture absorption, low thermal expansion, resistance to staining, or resistance to cleaning chemicals is required.



### KEY CHARACTERISTICS:

- Strong and stiff
- Excellent chemical resistance, including resistance to many CIP wash-down solutions
- Low moisture absorption
- Low thermal expansion
- Stain resistance
- Excellent wear characteristics, even in wet environments
- Internally lubricated grades available
- FDA compliant grades available

### APPLICATIONS:

- Valve components
- Manifolds
- Filler pistons
- Bearings and bushings
- Wear pads
- Packaging machinery parts
- Food processing machinery components
- Wheels
- Rollers
- Electrical components

### PET TYPICAL PROPERTIES:

	UNITS	ASTM TEST	PET (SEMICRYSTALLINE)
Tensile strength	psi	D-638	11,500
Flexural modulus	psi	D-790	400,000
Izod impact (notched)	ft-lbs/in of notch	D-256	0.7
Heat deflection temperature @264 psi	°F	D-648	175
Maximum continuous service temperature in air	°F		230
Water absorption (immersion 24 hours)	%	D-570	0.10
Coefficient of linear thermal expansion	in/in/°F x 10 <sup>-5</sup>	D-696	3.9

**Standard Sizes: SHEET: 24"x48" (0.25"-4.0" thick) ROD: diameter 0.25"-6.0"**

Length, width, thickness, and diameter tolerances vary by size and by manufacturer • Custom sizes and colors available upon request • Many of our materials are available as films with thicknesses of 0.029" or less. Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.

**Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, and prototyping materials for over 65 years**



NATIONWIDE  
**1.888.CURBELL**  
[www.curbellplastics.com](http://www.curbellplastics.com)

©2008 Curbell Plastics, Inc. All other trademarks and service marks are property of the respective manufacturers. All statements, technical information and recommendations contained in this publication are presented in good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Curbell, Inc. cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of specific products in any given application. PETDataSheet 0308