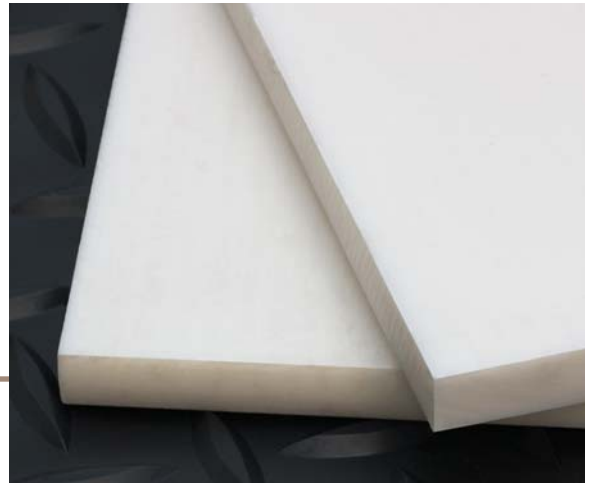


PBT (polybutylene terephthalate)

SUSTADUR® PBT / TECADUR™ PBT



PBT is a strong, stiff engineering plastic with excellent machining characteristics, chemical resistance, and bearing and wear properties. PBT is often used for food processing machinery applications when low moisture absorption, resistance to staining, or resistance to cleaning chemicals is required.



KEY CHARACTERISTICS:

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

APPLICATIONS:

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

PBT TYPICAL PROPERTIES:

| | UNITS | ASTM TEST | PBT | PBT INTERNALLY LUBRICATED |
|---|--------------------|-----------|---------|---------------------------|
| Tensile strength | psi | D-638 | 8,690 | 7,200 |
| Flexural modulus | psi | D-790 | 330,000 | 390,000 |
| Izod impact (notched) | ft-lbs/in of notch | D-256 | 1.5 | 0.7 |
| Heat deflection temperature @264 psi | °F | D-648 | 130 | 195 |
| Maximum continuous service temperature in air | °F | | 245 | 221 |
| Water absorption (immersion 24 hours) | % | D-570 | 0.08 | 0.07 |

Standard Sizes: SHEET: 24"x48" (0.25"-2.5" 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
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